



UNIVERSITY OF TORONTO

FACULTY OF ARTS & SCIENCE



2024-25 Academic Calendar

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Message from the Dean

Welcome to the Faculty of Arts & Science—Canada's largest and most comprehensive academic division. Whether you are new to Arts & Science, or a returning student, I encourage you to take advantage of the extraordinary breadth of learning opportunities available to you. With more than 340 undergraduate programs to choose from, Arts & Science students can build a unique and personalized degree by combining courses and programs from diverse subject areas—from African studies to data science to criminology and sociolegal studies, just to name a few!

In-class courses represent one of the many educational modalities at the Faculty. Research, international, creative and professional opportunities also await you. In addition to providing an unforgettable student experience, these opportunities are designed to help you appreciate the complexity and interconnectedness of our world and provide practical, hands-on learning.

As you navigate your degree, remember all of the resources and services that are available to help you achieve your goals. Your college is your home base, equipped with a writing centre and academic advisors to aid your success. There are also online tools like [Sidney Smith Commons](#), as well as dedicated supports for mental health and wellness.

I wish you an exciting and rewarding academic year and look forward to seeing you around campus!

Melanie Woodin,
Dean, Faculty of Arts & Science
Professor, Department of Cell & Systems Biology

How to Use the Calendar

In This Section:

- [Terminology](#)
- [About Courses](#)
- [About Programs of Study](#)

The Academic Calendar is a Faculty of Arts & Science document that houses the most current information on the degrees, programs, and courses offered, as well as rules and regulations. The Academic Calendar is published once a year in early to mid-May, with updates from then on only for corrections.

Much of the information in the Calendar will be seen in other places. For example, course descriptions can also be found on the [Timetable Builder](#), and a breakdown of completion of program – and the degree – can be found on [Degree Explorer](#).

The information in the Academic Calendar is broken up into sections, and programs and courses are organized in pages dedicated to the various programs of study or by the academic units that offer programs and courses. The Academic Calendar can be browsed using the [Course Search](#) and [Program and Certificate Search](#) pages, or read as a “book” by using the [Adobe PDF version](#).

Terminology

Throughout the sections of the Calendar that deal with rules and concepts, definitions will be offered to clarify what specific terms mean in the context of study here at the Faculty of Arts & Science.

Conventions

Certain conventions are useful in reading parts of the Calendar that deal with requirements, whether for courses (prerequisites, corequisites, recommended preparation) or programs.

- Commas (,) and semi-colons (;) indicate items in a list. Context indicates whether the list is of options a student can pick from, or whether it is a list of courses where a student is expected to take all of them. If not stated specifically, assume the list indicates that a student must take all options.
- The plus sign (+) means “and” but may be used as a strong “and” to indicate courses that are paired to be a single option or requirement.
- A forward slash (/) means “or” and distinguishes multiple options to fulfil a specific requirement.
- Parentheses () or brackets [] identify courses that are grouped together to form a specific option or requirement.

For example, the First Year Requirements for the Cell and Molecular Biology Specialist:

- First Year:
BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1; JMB170Y1/ (MAT135H1, MAT136H1)/
MAT137Y1/ MAT157Y1.

This text explains that there is a series of course requirements needed for first year, but within these there are options. Going from the beginning, this means:

- BIO120H1 and BIO130H1 are both required.
- There is a Chemistry (CHM) requirement, which is filled either by:
 - CHM135H1 and CHM136H1; or
 - CHM151Y1.
- There is also a Math requirement, filled either by:
 - JMB170Y1; or
 - MAT135H1 and MAT136H1; or
 - MAT137Y1; or
 - MAT157Y1.

When Questions Arise

These style conventions help the academic units offering programs try to list the options in a concise way. For any clarification, reach out directly to the academic unit, a College Registrar's Office, or the Faculty at ask.artsci@utoronto.ca.

About Courses

A course is an academic activity which is recorded with a result on a student's academic history. A passed course normally gives academic credit towards completing a degree and may help complete a program. There are "full-credit" (1.0 credit, Y) and "half-credit" (0.5 credit, H) courses.

Elements of a Course Description

Below are the fields in the course description template. Links to existing courses as examples are included to help show how the template works.

Course Code

This is the unique identifier of every course which is used in the Academic Calendar and information systems like ACORN and Degree Explorer. The course code breaks down further into these sections:

Element	Examples	Explanation
Course Code	ENG150Y1 , STA313H1	
Course Designator	ENG, STA	This three-letter designator identifies the program(s) or academic unit(s) offering the course. In these examples, ENG and STA refer to these two programs: English and Statistical Sciences.
Course Number	150, 313	Every course in a program has its own identifying digits. For-credit courses run from "100-level" (starting with a 1) all the way to "400-level" (starting with a 4), and as they go up, broadly they indicate more advanced or more focused study. The "level" does not restrict student access. For example, a third-year student could take 100- to 400-level courses, but a first-year student should be careful taking 200- or high-level courses.
Course Weight	Y (1.0), H (0.5)	This is only one of two letters, either a "Y" or an "H": a "Y" indicates the course is a full-credit course and is worth 1.0 credit; an "H" indicates a half-credit course and is worth 0.5 credit.
Campus Indicator	1	This digit indicates the campus where the course is offered. In the Arts & Science Academic Calendar, normally a course has a "1" (one), indicating the downtown St. George Campus. Other indicators include a "0" (zero) meaning it is taught off-campus, a "3" (three) meaning it is taught at U of T Scarborough, or "5" (five) meaning it is taught at U of T Mississauga.

Course Title

Indicates the topic and theme of the course. Some courses may have a general title of a “special topics course” in the Academic Calendar but the actual course content varies year by year; in such a case, seek out the academic unit's or program's website, or the Timetable offerings, to learn more about what will be offered. On the transcript, the full course titles normally appear, although some courses still list the abbreviated course title.

Types of Instruction (Lecture/Tutorial/Practical/Seminar Hours (L/T/P/S))

All courses comprise a certain number of hours dedicated to instruction. There are four types. Often courses may have more than one.

- **Lectures** are standard in almost every course as the fundamental type of instruction, where the instructor will present course content to students. All instructors have individual styles and approaches to lectures. For example, some instructors may take questions differently or present slides/visual aids differently.
- **Tutorials** are smaller group meetings where students can discuss and ask questions about lecture material with either the instructor or (more often) a TA (teaching assistant). Tutorials may also be used for some kinds of evaluation, like small quizzes or to be assessed on a student's participation in the course. Like practicals, tutorials always are part of a course that has either lectures or seminars (see below).
- **Practicals** involve students being able to learn and apply their learning hands-on, for example, laboratories (“labs”) for science courses. If a course has practicals, then it always has either lectures or seminars (see below).
- **Seminars** are a small-class experience, common for very advanced courses, where the in-class process is a combination of some lecturing mixed with structured class discussion and often student presentations.

In brackets after the title, the number of hours that students will spend in lecture (L), in tutorial (T), in practical sessions (P), or seminar (S) for the course are listed. These are most often a multiple of 12, as the term is 12 weeks in length.

Calendar Description

This paragraph highlights the course content and themes to be delivered in the course. The description will state anything special about the course, from special aspects of the class experience (for example, language of study or field work), to the intended audience of the course (for example, a science course intended for non-science students as an elective), to any special ancillary fees (for example, lab material).

Prerequisites, Co-requisites, Recommended Preparation

These fields indicate courses which a student must complete before taking the course in question (prerequisites), sometimes with a minimum grade, take at the same time or prior to this course (co-requisites), or that are suggested (recommended preparation). The academic units that offer a course can remove students who do not have needed prerequisites or corequisites. Students are responsible for reviewing this information for their course planning.

Exclusions

Some courses overlap in content. This can be because the same kind of material may be offered in the context of different areas of study (like introductory statistics), or because there may be certain similar course material that is offered at different levels of difficulty, or because some courses have content that used to be offered in an older and now “retired” course. When reading a course description, if a student sees a course listed under “exclusions” that includes a course they already have credit for, they should not normally take this course. Academic units can remove students who have course exclusions, and even if they choose not to, the new course will not count for degree credit and will be marked “Extra”.

Breadth Requirement

Almost all courses are categorized in terms of one of the five breadth requirement categories:

- 1 (Creative and Cultural Representations)
- 2 (Thought, Belief and Behaviour)
- 3 (Society and its Institutions)
- 4 (Living Things and Their Environment)
- 5 (Physical and Mathematical Universes)

Half-credit courses offer 0.5 credits towards only one of the categories; full-credit courses offer either 0.5 credits in two different categories, or 1.0 credit in one.

About Arts & Science Programs

All degrees awarded by the Faculty of Arts & Science require and are defined by the program(s) a student completes as a degree requirement. These programs identify the subject area(s) the student has pursued and completed. A program is a sequence of courses in certain areas, normally with some choice of options within the sequence.

Elements of a Program Description

Programs can be searched directly using the [Program Search](#). Programs usually fall under a page dedicated to the academic unit that sponsors the program, but sometimes on their own page if they are very distinct from the usual programs that unit offers. Usually the program information is divided up this way:

- **Description** (optional) – A small bit of text to indicate what is notable about this program and why a student might select it as part of their academic or professional plans.
- **Enrolment requirements** – This describes what requirements, if any, a student must meet to enter the program. A program can be entered only if a student has obtained 4.0 credits or is on track to doing so before the start of the next September.
- **Completion requirements** – This lays out – often year by year – the courses a student must complete to complete the program itself. This information is translated for use in [Degree Explorer](#) tool to help a student track their progress and plan future courses.
- **Notes** (optional) – If either the enrolment requirements or the completion requirements need some clarification, there may be special notes inserted in either area.
- **Course Groups** (program dependent) – Many programs, especially programs that can recognize a selection from a number of courses from many academic units to fulfil program requirements, will list courses grouped by category.

Specialist, Major, and Minor Programs

Programs offered by the Faculty that may be used to complete a degree can have the status of a Specialist, Major, or Minor.

- **Specialist** programs (from 10.0 to 14.0 credits to complete) offer the deepest and most extensive study of the subject matter in question, and almost always represent the key area of degree studies.
- **Major** programs (from 6.0 to 8.0 credits to complete) offer a comprehensive study of the subject matter, and may be the primary area of degree studies, complemented with another Major or some Minor programs.
- **Minor** programs (4.0 credits to complete) offer a fundamental study of the subject matter and complement degree studies where a Major or a Specialist is also being pursued.

For more information on what combination of programs ensure completion of a degree, and the allowable combinations of programs, refer to the [HBA/HBSc](#) or [BCom](#) Degree Requirements.

Open and Limited Programs

Programs in the Faculty of Arts & Science are either open or limited; in the Academic Calendar, the enrolment requirements section of each program will specify the program type.

Open programs have no enrolment requirements except the completion of 4.0 credits. The enrolment requirements section for an open program may contain additional information that is useful for a student to know prior to enrolling in the program.

Limited programs have enrolment requirements in addition to the completion of 4.0 credits. These enrolment requirements are broken down in the following ways:

- Completed courses (with minimum grades)
 - For reasons of academic success, entry into the program relies on students having completed one or more specific courses, normally with a specific grade beyond a pass (50%).
- Variable Minimum Grade or Variable Minimum Grade Average
 - Limited programs with this requirement are in very high demand, and every year the program must establish a specific minimum grade (or a minimum average grade across multiple courses) based on how many students have applied and how many of the limited spaces are available. As such, this minimum changes each year and it is not possible to publish a guaranteed minimum.
 - Some programs may identify a minimum grade or minimum grade average that is required in order to ensure students' success in the program, however obtaining this minimum final grade or minimum grade average does not guarantee admission to the program.
- Special
 - Any requirement listed as "special" is a requirement that is beyond courses completed and grades achieved; for example, a supplementary application, or audition.

Streams

Streams are categorizations of special emphasis for a Specialist or Major program. The difference between Streams shows itself in upper-year courses, while the courses usually taken in first or second year are similar across all Streams in the Major or Specialist. Streams are presented in the Academic Calendar like a distinct program.

Focuses

When focuses exist in an area of study, they are taken in conjunction with a Specialist or Major, and they allow a student to select a special cluster of course options that all contribute to study of a particular theme, topic, or sub-discipline within the area of study. Focuses are normally not mandatory and enhance how a student plans the completion of their programs. A completed focus will show on a student's transcript.

Certificates

The University has three categories of Certificates. The Arts & Science Academic Calendar only includes those that must be completed by students pursuing a degree in the Faculty of Arts & Science. Certificates are composed of a sequence of 2.0-3.0 credits relating to an identified topic or theme that may complement a degree program. Pursuit of a Certificate may offer structure to elective course choices; these certificates do not offer any kind of professional certification. A completed Certificate will show on a student's transcript. Note that a Certificate is not a program, and will not contribute toward the program(s) required to complete the degree.

Language Citation

This is a special recognition available at the Faculty of Arts & Science that shows advanced study of a language. The Language Citation will consist of a notation on the transcript that reads: "Completed Requirements of Language Citation in [name of language]." This notation will appear in the Faculty of Arts & Science sessional segment of the student's academic record on the transcript listing the courses and marks for the session in which the Citation is assessed as complete. Note that Language Citation is not a program, and will not contribute toward the program(s) required to complete the degree.

The list below identifies the academic units that offer a Language Citation. For details, including the languages in which students may achieve a Citation, see the relevant entries in this Calendar.

- Classics
- East Asian Studies
- French
- Germanic Languages & Literatures
- Hungarian
- Indigenous Studies
- Italian Studies
- Near & Middle Eastern Civilizations
- Portuguese
- St. Michael's College
- Slavic and East European Languages and Cultures
- Spanish

How the Calendar Changes

The Academic Calendar is the official record of the curriculum of the Faculty as approved by the Faculty, including all the courses, programs, and degrees offered, and policies and rules around academic life. This information is also seen on other student websites and resources, including [Timetable Builder](#) and [Degree Explorer](#).

The Academic Calendar is published every twelve months, and includes any changes that were approved in the previous twelve months. Changes can be small, like a change to a course title or description, but can also include new courses, changes to program requirements, and even new programs or retired programs. All approved changes will have gone through planning, consultation, and governance approval before being published.

When does the information in the Academic Calendar come into effect?

Effective April 2019, when a new Academic Calendar is published in May, all the information normally comes into effect in the September after publication. This means students can rely on the information in the Academic Calendar being in effect from September through to the end of the following August.

For example, the information in the 2024-25 Academic Calendar comes into effect September 2024. Students already following the 2023-24 Academic Calendar continue to do so through the Summer of 2024 but can use the new Calendar to begin planning their courses for 2024-25 Fall/Winter course enrolment and for program enrolment in the Spring of 2025.

Specifically, when it comes to any new information regarding courses, programs, or degrees offered, this means:

- New courses or changes to courses do not take effect until September, so courses in the Summer are from the previous Calendar and follow those rules. As an example: the changes to courses or new courses in the 2024-25 Academic Calendar do not start until September 2024, in the 2024-25 Fall/Winter session.
- Changes to programs – either to rules on how to enrol in the program or to complete the program – take effect the following Summer. So any changes in the 2024-25 Academic Calendar apply to students who enrol in the Spring/Summer of 2025 (allowing the 2024-25 Fall/Winter session to prepare and plan).
- Changes to degree requirements take effect for students entering the Faculty in September. So students who start their studies in September 2024 follow the rules for their degree requirements in the 2024-25 Academic Calendar.

This applies not only to changes to the curriculum – to degrees, programs of study, and courses – but also to rules and policies.

Exceptions

There are three different situations where new information in a new Calendar may come into effect right away or as of the start of the Summer academic session (i.e., starting May).

- Changes to Ancillary Fees – Some courses may charge a special fee to students in the course to offset the cost of specific course materials (for example, lab coats for certain science courses with laboratory work). Fees operate on a different cycle and, if they are changed, this takes effect starting in summer courses. So be sure to note, when using any Academic Calendar, that ancillary fees listed can change in the Summer at the end of that Calendar's cycle.
- Special or urgent changes to courses/programs/degrees – If for any reason there is a change to course/programs that are urgently needed, or which are shown to only benefit students if they come into effect right away, these can take effect as of the Summer Session when the new Calendar is published. If this is true, the Academic Calendar will be annotated with special information about changes in effect as of March, when the program enrolment process begins.
- Changes that affect prospective students in high school – If any change in the Academic Calendar could significantly impact the planning for students in their last year of high school/secondary school, such changes may

be published but be delayed by a year (or more) in taking effect, to allow time for students to adjust their studies before coming to the University of Toronto and the Faculty of Arts & Science.

Governing Structure of the Faculty of Arts & Science

Arts & Science Council

The Arts & Science Council is the governing body in the Faculty of Arts & Science. The Council is composed of elected members from the Faculty's undergraduate and graduate students, teaching staff, administrative and technical staff, and normally meets six times per year. It approves policy for the Faculty in the areas of admissions, curriculum development, evaluation and academic standing, and determines the Faculty's academic rules and regulations. Budgetary and administrative matters are not within the purview of Council; those responsibilities lie with the Dean of the Faculty.

The Council has several Standing Committees charged with specific responsibilities to formulate policy and to apply it in specific cases. Those committees are: Undergraduate Curriculum Committees, Graduate Curriculum Committee, Committee on Standing (petitions), Academic Appeals Board, and the Committee on Admissions. There is also an Agenda Committee which oversees the business conducted at each meeting of Council, and which can, in extreme cases, approve items when Council is unavailable and when urgency demands it.

Details on the Council and its sub-committees, along with the Constitution and By-Laws, rules for elections, meeting dates and agendas can be found on the [Faculty's Governance website](#).

Elections to Council and its Committees

Elections to fill the positions on the Arts & Science Council and its committees are held in the Spring for the following year's Council and committees. The exception is the election of First-Year representatives, held early in the Fall Term; this time may also be used to fill any seats still empty after the previous Spring.

Notification of the nomination and election dates, as well as nomination forms, will be available on the [Faculty's Governance website](#).

University and Faculty Leadership

Governing Council & the University of Toronto Senior Leadership

Governing Council of the University of Toronto, established in 1971, oversees the business of the University – its academic programs and planning, its business and finances, and the support for student community.

Governing Council, with this mandate, works closely with senior administrative leadership, including the University's Chancellor, the President, Vice-Presidents, the Provost and Vice-Provosts.

More about this leadership is available at the following web pages:

- [Office of the Governing Council](#) – For information not only on Governing Council, but the various boards and committees that report to it. There is also a link to the University's policies.
- [Office of the President](#) – For more information about the current President, Meric Gertler, and his priorities in leading the University.
- [About U of T](#) – This page introduces you to the senior leadership of the University, with links to small bios to learn about each member.
- [Division of the Vice-President & Provost](#) – This page introduces the Vice-President and Provost and lists the many Vice-Provosts and their areas of work to support University life.

Arts & Science Council & Officers of the Faculty of Arts & Science

Faculty of Arts & Science Council, unlike Governing Council for the University, only oversees academic policy and curriculum in the Faculty of Arts & Science. The Dean of Arts & Science manages the business and financial side of the Faculty, supported by Vice-Deans, Associate Deans and senior administration. The Dean's Office, along with the Office of the Faculty Registrar, and the senior administration of the seven Colleges work closely with student groups and individual students to support communities of learning and engagement.

For more information about the Arts & Science Council, its Standing Committees, and its past and current business, please visit artsci.utoronto.ca/about/faculty-governance.

For more information about the current Dean of Arts & Science, please visit artsci.utoronto.ca/about/glance/leadership-team/dean-faculty-arts-science.

Faculty Officers for July 1, 2024 - June 30, 2025

(Academic appointment terms begin July 1 of a given year.)

Position	July 1, 2024 - June 30, 2025
Dean, Faculty of Arts & Science	Professor Melanie Woodin (on leave July 1, 2024 – December 31, 2024) Professor Antoinette Handley (July 1, 2024 – December 31, 2024)
Vice-Dean, Academic Operations	Professor Jamie Stafford
Vice-Dean, Academic Planning	Professor Gillian Hamilton
Vice-Dean, College Relations	Professor Markus Stock
Vice-Dean, Faculty & Academic Life	Professor Tamara Trojanowska
Acting Vice-Dean, Graduate Education	Professor Michael Brudno (July 1, 2024 – December 31, 2024)
Vice-Dean, Research & Infrastructure	Professor Stephen Wright
Vice-Dean, Undergraduate	Professor Randy Boyagoda
Associate Dean, Student Affairs	Professor Suzanne Wood
Associate Dean, Teaching & Learning	Professor Don Boyes

The Learning Experience

Language of Instruction

The default language of instruction in any course is English. If any course is taught in another language – for example, courses studying another language – then that is clearly stated either in the notes for that department/program, or in the course description.

Statement Regarding In-Person Learning

The University of Toronto delivers academic programs through an in-person learning environment. All students should therefore plan to attend on-campus activities in person in order to successfully complete their program/degree unless: (i) students have been approved by the University to participate in off-campus activities (such as study abroad or work terms), or (ii) the calendar entry for a program/degree explicitly states that no in-person activities are required.

While the University strives to maintain an in-person learning environment, the University reserves the right to alter the manner in which it delivers its courses and co-curricular opportunities in response to health and safety emergencies and public health guidance.

Academic Sessions and Terms

There are two Academic Sessions at the Faculty of Arts & Science.

- The **Fall/Winter** Session runs from September to April and is divided into two terms: First (September to December) and Second (January to April).
 - Each term of the Fall/Winter is comprised of 12 weeks for classes/lectures (thus, 24 weeks in total for the Session) and includes days for study break and for Faculty final exams (also called the Exam Period). Some courses, normally full (1.0 credit) courses, run the full 24 weeks from September to April; normally half-courses (0.5 credit) run in the Fall or Winter term. In some cases, courses may repeat and be offered in the Fall and the Winter.
 - Enrolment for an upcoming Fall/Winter normally begins in early July.
- The **Summer** Session runs from May to August (with a total of 12 weeks possible for course content) and has two short terms, a “First” and “Second”.
 - The first term runs from early May to mid-June, the other from early July to mid-August. Days are also allotted for exam preparation and for writing exams. Because of this compressed time period, many courses have double the normal lectures/tutorials in any week, and so the limit on the number of classes a student can take in the Summer is lower.
 - Enrolment for an upcoming Summer session normally begins in early March.

Students enrolled in a course are normally expected to be available from the start of classes through to the end of the Session, which is the last day of the final exam period.

Course Offerings

The Academic Calendar is the complete document of all the degrees, programs of study, and courses offered by the Faculty of Arts & Science. But note that each academic unit reserves the right not to offer every course every academic year. Every effort, however, is made to ensure that core mandatory courses are offered reliably every year, and in many cases, more than once through an academic year.

See [How to Use the Calendar](#) to learn more about what the Academic Calendar can tell you about the experience and expectations in any course offering.

HBA/HBSc Requirements

Degree Requirements:

Honours Bachelor of Arts (HBA)/Honours Bachelor of Science (HBSc)

Number of Credits	20.0. At least 10.0 credits must be offered by the Faculty of Arts & Science.
Level of Credits	Minimum of 13.0 at the 200/300/400-level At least 6.0 at the 300/400-level
Program Requirements	1 Specialist, or 2 Majors*, or 1 Major + 2 Minors* * must consist of 12.0 different credits
Cumulative Grade Point Average (GPA)	1.85
Breadth Requirement	The Breadth Requirement can be completed in one of two ways: (a) at least 1.0 credit in each of 4 of the 5 categories below, or (b) at least 1.0 credit in each of any 3 of the 5 categories, and at least 0.5 credit in each of the other 2 categories. <ol style="list-style-type: none"> 1. Creative and Cultural Representations 2. Thought, Belief, and Behaviour 3. Society and Its Institutions 4. Living Things and Their Environment 5. The Physical and Mathematical Universes

To qualify for an Honours Bachelor of Arts (HBA) or Honours Bachelor of Science (HBSc), a student must:

a) Obtain standing (i.e., complete with a mark of 50% or higher/P/CR) in at least 20.0 credits that meet the following criteria:

- At least 13.0 credits at the 200+ level, including a minimum of 6.0 credits at the 300+ level. No more than 1.0 credit at the 300+ level in transfer credit may be counted towards the minimum number of 300- and 400-level credits, except transfer credits attained through a University of Toronto exchange program.
- At least 10.0 credits from Faculty of Arts & Science courses. Note that transfer credits attained through a University of Toronto exchange program contribute to this 10.0 credits minimum.
- No more than 15.0 credits may have the same three-letter designator ("AST," "ENG," etc.). Courses beyond this limit will not be included in the 20.0 credits required for the degree, but will be counted in all other respects.

b) Complete one of the following:

- One Specialist program (which includes at least 1.0 credit at the 400-level), or
- Two Major programs, which must include at least 12.0 different credits, or
- One Major and two Minor programs, which must include at least 12.0 different credits

Whether a student receives an HBA or HBSc depends on the programs that are completed; see [Program Requirements](#).

c) Complete the Arts & Science [Breadth Requirement](#).

d) Obtain a Cumulative GPA of 1.85 or more by the time of graduation. Students who meet all the requirements for the HBA/HBSc except for the GPA requirement may elect to graduate with a Bachelor of Arts/Bachelor of Science degree provided that their final Cumulative GPA is between 1.5 and 1.84.

Program Requirements

Completion of one or more programs is only one part of the general degree requirements. Variations made in program details for individual students do not in any way affect degree requirements. Programs are groupings of courses in one or more disciplines.

Programs of Study are one of:

- **Specialist** Program: a sequence of between 10.0 and 14.0 credits in one or more disciplines (note that some interdisciplinary Specialist programs may require up to 16.0 credits). Specialist programs must include at least 4.0 credits from 300+ level courses, of which 1.0 credit must be at the 400 level.
- **Major** Program: a sequence of between 6.0 and 8.0 credits in one or more disciplines. Major programs must include at least 2.0 credits from 300+ level courses, of which one 0.5 credit must be at the 400 level.
- **Minor** Program: a sequence of 4.0 credits in one or more disciplines. Minor programs must include at least 1.0 credit at the 300+ level.

Please note that some courses included as program options may have prerequisites as requirements not listed in the program but which must be taken. Programs which list optional courses do not necessarily list their prerequisites. Students are responsible for fulfilling prerequisites; students enrolled in courses for which they do not have the published prerequisites may have their registration in those courses cancelled at any time without warning.

Students are required to:

- Enrol in at least one and no more than three programs (of which only two can be Majors or Specialists), in the session in which they pass the course that brings them to a total of 4.0 credits. See the [Arts & Science Program Toolkit](#) for details.
- Meet any enrolment requirements for a program as stated in the Calendar.
- The programs(s) completed determine whether a student receives the Honours Bachelor of Science (HBSc) or the Honours Bachelor of Arts (HBA) degree upon graduation. Each program entry lists the type of degree it leads to. For example, in the English section, the English Specialist listing is followed by "Arts program;" in the Mathematics section, the Math Major is followed by "Science program," etc. A student completing one Specialist in an Arts area would receive the HBA; a student completing one Specialist in a Science area would receive the HBSc.

For program combinations that include more than one area (Arts and Science), the following applies:

- A student completing one Major in a Science area and one Major in an Arts area has a choice of either the HBSc or the HBA.
- In combinations of one Major and two Minors, the type of degree depends on the areas of the three programs. For example, if the Major is in a Science area and the two Minors are in Arts areas (or vice versa), the student has a choice of either the HBSc or the HBA. If the Major and one Minor are in Science areas and the other Minor is in an Arts area, the student would receive the HBSc. Similarly, if the Major and one Minor are in Arts areas and the other Minor is in a Science area, the student would receive the HBA.
- A student completing one Specialist in a Science area and an additional Major in an Arts area (or vice versa) has a choice of either the HBSc or the HBA.
- Students enrolled in either two Majors or one Major and two Minors must ensure they have a minimum of 12.0 different credits between the programs.

For example:

- For a student enrolled in the Physiology Major (8.0 credits) and the Biology Major (8.0 credits):
 - In order to meet the 12.0 different credit requirement, they may have up to 4.0 overlapping credits between their Majors ($8.0 + 8.0 = 16.0$; $16.0 - 12.0 = 4.0$).
 - These two programs contain 3.0 core credits in common: (BIO120H1 and BIO130H1), (CHM135H1 and CHM136H1), and (BIO220H1 and BIO230H1). Therefore, they may take up to 1.0 more overlapping credit between the majors. In short, 8.0 for PSL + 8.0 for BIO = 16.0 credits; 16.0 credits - 12.0 different credits = 4.0 credits overlapping allowed.

Self-Designed Programs

In rare circumstances, a student may propose to design their own program, which must be substantially different from any program in this Calendar. Such cases are exceptional. Such a program, if formally adopted by the student's College on the basis of its academic rigour and coherence, and if approved by the Office of the Dean, will be accepted as fulfilling the degree requirement for certification in a program (transcripts indicate only "Completed Self-designed Program approved by 'X' College"). Since the approval process is necessarily a long one, students following this alternative must discuss this process with their College Registrar immediately after completion of 4.0 credits in the Faculty.

Breadth Requirement

The purpose of the Breadth Requirement is to ensure all students graduating with a degree from the Faculty of Arts & Science have chosen courses across a broad range of subject areas in the Faculty as part of their undergraduate education.

The five Breadth Requirement categories are:

1. **Creative and Cultural Representations**

An appreciation for the diversity of cultural products, their meanings, and their socio-historical contexts through exposure to works in a variety of media and forms. Courses in this category focus on creative products and cultural expression, engaging students in activities such as the reading of texts, the learning of languages, and the study of art, film or oral traditions. These courses would normally focus on the conditions through which such works are produced, on their various interpretations in societal context, and on the ways in which those interpretations may have changed over time.

2. **Thought, Belief, and Behaviour**

Familiarity with investigations of the mind and individual behaviour, and the formation and function of systems of meaning, belief, and communication. These courses explore the ways in which the mind perceives reality and makes sense of both the human and natural world. Their content may focus on the creation of meaning and the ways in which belief systems are sustained and reproduced, as well as on the communication of meaning through language and other symbolic systems. Many courses falling into this category centre upon understanding collective belief and the nature of human thought, and the ways in which these shape societal behavior and norms.

3. **Society and Its Institutions**

Knowledge of societal organization, institutions, and systems, the ways they change over time, and the theories and models used to understand them. These courses include not only the study of social, economic and political systems, but also the ways in which humans arrange their built environments and manage environmental systems to meet their own needs. They will typically explore the social networks and systems that organize human lives and modify their environments. Courses in this category will generally approach these issues using social science methodologies and/or historical and critical analyses. Courses may also situate the issues explored in relation to relevant social theory (or theorists), models, or approaches to understanding societal problems.

4. **Living Things and Their Environment**

A grasp of the principles and concepts of life and the relation between organisms and their natural surroundings, and the ability to make and evaluate observations about living things. This category includes courses broadly from the biological and environmental sciences, which develop an understanding of the study of life and its contexts; levels of organization range from molecules to the biosphere. Courses will cultivate an understanding of scientific methodology (the formulation of hypotheses, experimental design, and quantitative analysis methods), its application in the life sciences, and its limits in providing answers concerning biological and environmental questions.

5. **The Physical and Mathematical Universes**

An understanding of theories of the physical world and mathematical models, and the ability to apply them and to make and evaluate observations relating to them. Courses in the physical sciences study the constituents and mechanisms that govern the natural world, with an emphasis on non-living systems. Such courses develop an understanding of scientific methodology (the formulation of hypotheses, experimental design, and quantitative analysis methods), its application and its limits.

The Breadth Requirement can be completed in one of two ways:

- at least 1.0 credit in each of 4 of the 5 categories, or
- at least 1.0 credit in each of any 3 of the 5 categories, and at least one 0.5 credit in each of the other 2 categories.

Most courses in the Faculty of Arts & Science are classified into five Breadth categories by subject content. A few courses do not have a Breadth Requirement assigned and therefore do not count toward this degree requirement. If they do state a Breadth Requirement, half-credit courses offer 0.5 credits towards only one of the categories; full-credit courses offer either 0.5 credits in two different categories, or 1.0 credit in one. Students may count towards the Breadth Requirement any course which has a Breadth designation, and in which they have achieved standing (a grade of 50% or higher/P/CR), including courses completed toward program (Specialist, Major, Minor) requirements. Courses that have been designated Extra can contribute toward the Breadth Requirement.

A course's Breadth designation can be found following the course description in the Calendar for the year in which the course is taken; in the instance where a course does not have a Breadth category, the Breadth Requirement will not appear in the course description.

For example:

HIS103Y1: Strategy and Statecraft: War and Diplomacy in European History

Hours: 48L/20T

An analysis of the development of the international system, from 1648 to 1945, which highlights the role of war as an instrument of national policy, as a determinant of the system of states and as a threat to international society.

Exclusion: HIS100Y1, HIS101Y1, HIS102Y1, HIS106Y1, HIS107Y1, HIS108Y1, HIS109Y1, HIS110Y1

Breadth Requirements: Society and its Institutions (3)

HIS103Y1 counts as 1.0 credit in Category 3 (Society and Its Institutions).

ENG215H1: The Canadian Short Story

Hours: 36L

An introduction to the Canadian short story, this course emphasizes its rich variety of settings, subjects, and styles.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG215H1 counts as one 0.5 credit in Category 1 (Creative and Cultural Representations).

ANT100Y1: Introduction to Anthropology

Hours: 48L/12T

Society and culture from various anthropological perspectives: socio-cultural, evolutionary, archaeological, and linguistic.

Breadth Requirements: Living Things and Their Environment (4), Society and its Institutions (3)

ANT100Y1 counts as one 0.5 credit in Category 3 (Society and its Institutions) and one 0.5 credit in Category 4 (Living Things and Their Environment).

BCom Requirements

Degree Requirements: Bachelor of Commerce (BCom)

Number of Credits	20.0. At least 10.0 credits must be offered by the Faculty of Arts & Science.
Level of Credits	Minimum of 13.0 at the 200/300/400-level At least 6.0 at the 300/400-level, including at least 1.0 at the 400-level
Program Requirements	Management, Finance & Economics, or Accounting Specialist (A minimum of 8.0 RSM/MGT credits, 8.0 other A&S credits)
Cumulative Grade Point Average (GPA)	1.85
Breadth Requirement	<p>The Breadth Requirement can be completed in one of two ways: (a) at least 1.0 credit in each of 4 of the 5 categories below, or (b) at least 1.0 credit in each of any 3 of the 5 categories, and at least one 0.5 credit in each of the other 2 categories.</p> <ol style="list-style-type: none"> 1. Creative and Cultural Representations 2. Thought, Belief, and Behaviour 3. Society and Its Institutions 4. Living Things and Their Environment 5. The Physical and Mathematical Universes

To qualify for a Bachelor of Commerce (BCom) degree, a student must:

a) Obtain standing (i.e., complete with a mark of 50% or higher/P/CR) in at least 20.0 credits that meet the following criteria:

- At least 13.0 credits at the 200+ level, including a minimum of 6.0 credits at the 300+ level. No more than 1.0 credit at the 300+ level in transfer credit may be counted towards the minimum number of 300- and 400-level credits, except transfer credits attained through a University of Toronto exchange program.
- At least 10.0 credits in Faculty of Arts & Science courses. Note that transfer credits attained through a University of Toronto exchange program contribute to this 10.0 credits minimum.
- No more than 15.0 credits may have the same three-letter designator ("AST," "ENG," etc.). Courses beyond this limit will not be included in the 20.0 credits required for the degree, but will be counted in all other respects.

b) Complete one of the following program requirements: Specialist in Accounting, Specialist in Finance and Economics, or Specialist in Management

c) Complete the Arts & Science Breadth Requirement;

d) Achieve a cumulative GPA of 1.85 or more by the time of graduation.

Program Requirements

Completion of one or more programs is only one part of the general degree requirements. Variations made in program details for individual students do not in any way affect degree requirements. Programs are groupings of courses in one or more disciplines.

Programs of Study are one of:

- **Specialist** Program: a sequence of between 10.0 and 14.0 credits in one or more disciplines (note that some interdisciplinary Specialist programs may require up to 16.0 credits). Specialist programs must include at least 4.0 credits from 300+ level courses, of which 1.0 credit must be at the 400 level.
- **Major** Program: a sequence of between 6.0 and 8.0 credits in one or more disciplines. Major programs must include at least 2.0 credits from 300+ level courses, of which one 0.5 credit must be at the 400 level.
- **Minor** Program: a sequence of 4.0 credits in one or more disciplines. Minor programs must include at least 1.0 credit at the 300+ level.

Please note that some courses included as program options may have prerequisites as requirements not listed in the program but which must be taken. Programs which list optional courses do not necessarily list their prerequisites. Students are responsible for fulfilling prerequisites; students enrolled in courses for which they do not have the published prerequisites may have their registration in those courses cancelled at any time without warning.

Students are required to:

- Enrol in at least one and no more than three programs (of which only two can be Majors or Specialists), in the session in which they pass the course that brings them to a total of 4.0 credits. Bachelor of Commerce students complete either the Specialist in Accounting, Specialist in Finance and Economics, or Specialist in Management and can enrol in Major or Minor programs in other disciplines as well.
- Meet any enrolment requirements for a program as stated in the Calendar.

Self-Designed Programs

In rare circumstances, a student may propose to design their own program, which must be substantially different from any program in this Calendar. Such cases are exceptional. Such a program, if formally adopted by the student's College on the basis of its academic rigour and coherence, and if approved by the Office of the Dean, will be accepted as fulfilling the degree requirement for certification in a program (transcripts indicate only "Completed Self-designed Program approved by 'X' College"). Since the approval process is necessarily a long one, students following this alternative must discuss this process with their College Registrar immediately after completion of 4.0 credits in the Faculty.

Breadth Requirement

The purpose of the Breadth Requirement is to ensure all students graduating with a degree from the Faculty of Arts & Science have chosen courses across a broad range of subject areas in the Faculty as part of their undergraduate education.

The five Breadth Requirement categories are:

1. **Creative and Cultural Representations**

An appreciation for the diversity of cultural products, their meanings, and their socio-historical contexts through exposure to works in a variety of media and forms. Courses in this category focus on creative products and cultural expression, engaging students in activities such as the reading of texts, the learning of languages, and the study of art, film or oral traditions. These courses would normally focus on the conditions through which such works are produced, on their various interpretations in societal context, and on the ways in which those interpretations may have changed over time.

2. **Thought, Belief, and Behaviour**

Familiarity with investigations of the mind and individual behaviour, and the formation and function of systems of meaning, belief, and communication. These courses explore the ways in which the mind perceives reality and makes sense of both the human and natural world. Their content may focus on the creation of meaning and the ways in which belief systems are sustained and reproduced, as well as on the communication of meaning through language and other symbolic systems. Many courses falling into this category centre upon understanding collective belief and the nature of human thought, and the ways in which these shape societal behavior and norms.

3. **Society and Its Institutions**

Knowledge of societal organization, institutions, and systems, the ways they change over time, and the theories and models used to understand them. These courses include not only the study of social, economic and political systems, but also the ways in which humans arrange their built environments and manage environmental systems to meet their own needs. They will typically explore the social networks and systems that organize human lives and modify their environments. Courses in this category will generally approach these issues using social science methodologies and/or historical and critical analyses. Courses may also situate the issues explored in relation to relevant social theory (or theorists), models, or approaches to understanding societal problems.

4. **Living Things and Their Environment**

A grasp of the principles and concepts of life and the relation between organisms and their natural surroundings, and the ability to make and evaluate observations about living things. This category includes courses broadly from the biological and environmental sciences, which develop an understanding of the study of life and its contexts; levels of organization range from molecules to the biosphere. Courses will cultivate an understanding of scientific methodology (the formulation of hypotheses, experimental design, and quantitative analysis methods), its application in the life sciences, and its limits in providing answers concerning biological and environmental questions.

5. **The Physical and Mathematical Universes**

An understanding of theories of the physical world and mathematical models, and the ability to apply them and to make and evaluate observations relating to them. Courses in the physical sciences study the constituents and mechanisms that govern the natural world, with an emphasis on non-living systems. Such courses develop an understanding of scientific methodology (the formulation of hypotheses, experimental design, and quantitative analysis methods), its application and its limits.

The Breadth Requirement can be completed in one of two ways:

- at least 1.0 credit in each of 4 of the 5 categories, or
- at least 1.0 credit in each of any 3 of the 5 categories, and at least one 0.5 credit in each of the other 2 categories.

Most courses in the Faculty of Arts & Science are classified into five Breadth categories by subject content. A few courses do not have a Breadth Requirement assigned and therefore do not count toward this degree requirement. If they do state a Breadth Requirement, half-credit courses offer 0.5 credits towards only one of the categories; full-credit courses offer either 0.5 credits in two different categories, or 1.0 credit in one. Students may count towards the Breadth Requirement any course which has a Breadth designation, and in which they have achieved standing (a grade of 50% or higher/P/CR), including courses completed toward program (Specialist, Major, Minor) requirements. Courses that have been designated Extra can contribute toward the Breadth Requirement.

A course's Breadth designation can be found following the course description in the Calendar for the year in which the course is taken; in the instance where a course does not have a Breadth category, the Breadth Requirement will not appear in the course description.

For example:

HIS103Y1: Strategy and Statecraft: War and Diplomacy in European History

Hours: 48L/20T

An analysis of the development of the international system, from 1648 to 1945, which highlights the role of war as an instrument of national policy, as a determinant of the system of states and as a threat to international society.

Exclusion: HIS100Y1, HIS101Y1, HIS102Y1, HIS106Y1, HIS107Y1, HIS108Y1, HIS109Y1, HIS110Y1
Breadth Requirements: Society and its Institutions (3)

HIS103Y1 counts as 1.0 credit in Category 3 (Society and Its Institutions).

ENG215H1: The Canadian Short Story

Hours: 36L

An introduction to the Canadian short story, this course emphasizes its rich variety of settings, subjects, and styles.

Prerequisite: 1.0 ENG credit or any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG215H1 counts as one 0.5 credit in Category 1 (Creative and Cultural Representations).

ANT100Y1: Introduction to Anthropology

Hours: 48L/12T

Society and culture from various anthropological perspectives: socio-cultural, evolutionary, archaeological, and linguistic.

Breadth Requirements: Living Things and Their Environment (4), Society and its Institutions (3)

ANT100Y1 counts as one 0.5 credit in Category 3 (Society and its Institutions) and one 0.5 credit in Category 4 (Living Things and Their Environment).

Academic Record

In This Section:

- [Grading and Course Marks](#)
- [Grade Point Average](#)
- [Assessment of Academic Standing](#)
- [Recognition of Academic Achievement](#) (Including Dean's List Scholar, Distinction and High Distinction, and Faculty of Arts & Science Scholarships)

Grading and Course Marks

Marks Review Procedure

The Faculty of Arts & Science implements the Grading Regulations, reviews course marks submitted by academic units, and posts the official marks. Official marks are communicated to students via ACORN.

Each academic unit has an appointed faculty member (e.g., a Chair, Program Director, Vice Principal) who is responsible for reviewing marks submitted by instructors. This appointed faculty member may ask for clarification of any anomalous results or distributions, or disparity between sections of the same courses. Both the appointed faculty member and the Dean have the right, in consultation with the instructor of the course, to adjust marks where there is an obvious and unexplained discrepancy between the marks submitted and the perceived standards of the Faculty. Final marks are official, and may be communicated to the students only after the review procedure has taken place. Marks, as an expression of the instructor's best judgment of each student's overall performance, will not be determined by any system of quotas.

Course Marks

Percentage	Letter Grade	Grade Point Value*	Grade Definition	
90-100	A+	4.0	Excellent	Strong evidence of original thinking; good organization; capacity to analyze and synthesize; superior grasp of subject matter with sound critical evaluations; evidence of extensive knowledge base.
85-89	A	4.0		
80-84	A-	3.7		
77-79	B+	3.3	Good	Evidence of grasp of subject matter; some evidence of critical capacity and analytic ability; reasonable understanding of relevant issues; evidence of familiarity with literature.
73-76	B	3.0		
70-72	B-	2.7		
67-69	C+	2.3	Adequate	Student who is profiting from their university experience; understanding of the subject matter; ability to develop solutions to simple problems in the material.
63-66	C	2.0		
60-62	C-	1.7		
57-59	D+	1.3	Marginal	Some evidence of familiarity with subject matter and some evidence that critical and analytic skills have been developed.
53-56	D	1.0		
50-52	D-	0.7		
0-49	F	0.0	Inadequate	Little evidence of even superficial understanding of subject matter; weakness in critical and analytic skills; with limited or irrelevant use of literature.

* The grade point values above apply to marks earned in individual courses; [grade point averages](#) are weighted sums of the grade points earned, and thus do not necessarily correspond exactly to the scale above.

In order to obtain final standing in a course, a student must receive at least a passing grade (50%)/P/CR in that course. A Grade of "F" is a failure. There are no supplemental examination privileges in the Faculty.

Transcript notations that may appear in lieu of a final mark and have no grade point value are:

Notation	Definition
AEG	Aegrotat Standing on the basis of term work and medical evidence
CR/NCR	<u>Credit/No Credit</u>
EXT or XTR or X	Extra
GWR	Grade Withheld pending Review
IPR	(Course) In Progress
LWD	<u>Late Withdrawal After the Drop Date</u>
NGA	No grade available
P/FL	Pass/Failure. In cases where the FL grade is used in calculating grade point averages, the symbol "FL %" is used and a grade point value of 0.0 is assigned
SDF	Standing Deferred; granted only by <u>petition</u>
WDR	Late Withdrawal without academic penalty after the relevant deadline; granted only by <u>petition</u>

Grade Point Average

The Grade Point Average (GPA) is the weighted sum (a full-credit course is weighted as 1.0, a half-credit course as 0.5) of the grade points earned, divided by the number of courses in which grade points were earned. GPAs are calculated for degree students, non-degree students, and visiting students. For non-degree students who have completed a degree in the Faculty, the cumulative GPA includes all courses taken both as a degree student and as a non-degree student.

Four types of grade point averages are calculated:

- **Sessional GPA (SGPA):** The SGPA is calculated up to three times per year, based on marks obtained during each of the Fall term (September-December), the Winter term (January-April), and the Summer Session (May-August).
- **Annual GPA (AGPA):** The AGPA is calculated once, based on courses completed during the Fall/Winter Session as a whole.
- **Cumulative GPA (CGPA):** The CGPA is calculated on the same schedule as the SGPA and takes into consideration all the marks for all individual courses completed by the student to that point.
- **The Concurrent Teacher Education Program (CTEP) GPA:** Takes into account all Bachelor of Education courses and is only calculated for CTEP students.

Courses that are not included in the GPA calculation are:

- courses noted with AEG standing
- transfer credits
- courses designated Extra
- courses taken as CR/NCR
- courses evaluated on a Pass/Fail basis in which a grade of Pass (P) is achieved

If a grade of Fail (FL) is achieved in a course evaluated on a Pass/Fail basis, a grade point value of 0.0 may be assigned in which case the course is included in the GPA.

Assessment of Academic Standing

There are four kinds of academic standing:

- In Good Standing
- On Probation
- On Suspension
- Refused Further Registration

Academic standing is assessed for the first time at the end of the Session in which a student achieves final standing in at least one 0.5 credit course in the Faculty of Arts & Science, excluding:

- courses noted with AEG standing
- transfer credits
- courses designated Extra
- courses taken as CR/NCR
- courses evaluated on a Pass/Fail basis in which a grade of Pass (P) is achieved

If a grade of Fail (FL) is achieved in a course evaluated on a Pass/Fail basis, a grade point value of 0.0 may be assigned in which case the course is included in the GPA and therefore contributes to the assessment of academic standing.

Academic standing is assessed twice a year:

- At the end of the Fall/Winter Session; the GPAs used for this assessment are the annual and the cumulative GPAs.
- At the end of the Summer Session; the GPAs used for this assessment are the sessional and the cumulative GPAs.

In Good Standing

Students are described as In Good Standing if their cumulative GPA is 1.50 or higher, that is, they have not been assessed as On Probation, Suspended, or Refused Further Registration.

Probation, Suspension, and Refused Further Registration

Students are on academic probation if they

- a) have a cumulative GPA of less than 1.50 or
- b) return from suspension

Students On Academic Probation may take no more than 2.5 credits in each of the Fall and Winter terms, and no more than 1.0 credit in each of the Summer terms (see Number of Courses Taken).

Students who are on probation and, depending on individual enrolment, at the end of the next Fall/Winter Session or Summer Session when academic standing is assessed:

- have a cumulative GPA of 1.50 or more: will be in good standing
- have a cumulative GPA of less than 1.50 but an annual GPA of 1.70 or more (Fall/Winter Session) or a sessional GPA of 1.70 or more (Summer Session): will continue on probation
- have a cumulative GPA of less than 1.50 and an annual GPA of less than 1.70 (Fall/Winter Session) or a sessional GPA of less than 1.70 (Summer Session): will be suspended for one calendar year unless they have already been suspended for one year, in which case they will be suspended for three years.

Students who, having been suspended for three years, when next assessed have a cumulative GPA of less than 1.50 and an annual GPA of less than 1.70 (Fall/Winter Session) or a sessional GPA of less than 1.70 (Summer Session): will be refused further registration in the Faculty.

Recognition of Academic Achievement

Dean's List Scholar

This designation is given at the end of the Fall/Winter Session and/or Summer Session to Faculty of Arts & Science degree students who complete their fifth, tenth, fifteenth, or twentieth degree credits in the Faculty and obtain a Cumulative Grade Point Average of 3.50 or higher.

The following courses are included in the credit count for the Dean's List, as long as the student receives a final mark of 50% or higher or a status of CR or P:

- Faculty of Arts & Science courses (H1/Y1/H0/Y0) completed for degree credit
- Courses in other divisions (for example the University of Toronto Mississauga (UTM), University of Toronto Scarborough (UTSC), or the John H. Daniels Faculty of Architecture, Landscape, and Design (Daniels)) completed by a degree student registered in the Faculty of Arts & Science
- Faculty of Arts & Science courses (H1/Y1/H0/Y0) completed while a student was registered in another division (for example, UTM/UTSC/Daniels) and the student subsequently transferred to the Faculty of Arts & Science

The following courses are not included in the credit count for the Dean's List:

- Transfer credits from secondary school (e.g., AP, IB, GCE, etc.) and/or post-secondary institutions
- Courses in other divisions completed while a student was registered in the other division
- Courses designated Extra
- Courses with a final mark of 49% or lower, or with a status of NCR or F
- EDU courses taken as part of the Concurrent Teacher Education Program (CTEP)

A "Dean's List Scholar" notation is added to each qualifying student's transcript in late June (for students who satisfy the criteria at the end of the Fall/Winter Session) and in late October (for students who satisfy the criteria at the end of the Summer Session). Dean's List Scholar notations are not applied at the end of the Fall term. There is no monetary value.

Students who satisfy the criteria but do not receive a transcript notation by the dates above for the appropriate session can contact the Office of the Faculty Registrar, Faculty of Arts & Science, at ask.artsci@utoronto.ca.

Distinction and High Distinction

Students who graduate with a Cumulative Grade Point Average (GPA)* of 3.50 or above are described as graduates "With High Distinction." This achievement is noted on the diploma and transcript.

Students who graduate with a Cumulative GPA* of 3.20 to 3.49 are described as graduates "With Distinction." This achievement is noted on the diploma and transcript.

*Note that the Cumulative GPA must be based on at least 5.0 credits taken for Faculty of Arts & Science degree credit.

Faculty of Arts & Science Scholarships

The Faculty offers many academically-based scholarships and other awards to exceptional degree students. Full details of these scholarships are available on the Faculty website.

Course Enrolment

In This Section:

- [Year of Study](#)
- [Number of Courses Taken \("Course Load"\)](#)
- [Full-time and Part-time Status](#)
- [Extra Courses](#)
- [Credit/No Credit \(CR/NCR\)](#)
- [Cancelling Courses](#)
- [Late Withdrawal \(LWD\)](#)
- [Prerequisites, Co-requisites, and Exclusions](#)
- [Taking Courses Outside the Faculty](#)

Year of Study

A Faculty of Arts & Science student who has:

- Completed fewer than 4.0 credits is in Year 1
- Completed 4.0 to 8.5 credits is in Year 2
- Completed 9.0 to 13.5 credits is in Year 3
- Completed 14.0 or more credits is in Year 4

Number of Courses Taken ("Course Load")

Students may proceed towards the degree at a rate of their own choosing, within the following parameters:

1. The recommended course load for full-time students who are in good standing in each of the Fall and Winter terms is no more than 2.5 credits; the maximum course load in each term is 3.0 credits. During the priority period of enrolment students' maximum course load, included waitlisted courses, is 2.5 credits; once the priority period has ended, students may enrol in/waitlist for an additional 0.5 credit to the maximum of 3.0 credits. Special consideration will not be granted on the basis of enrolment in more than the recommended maximum.
2. The maximum course load for students who are in good standing during the Summer Session is 1.0 credit per term.
3. Students on Academic Probation may take no more than 2.5 credits in each of the Fall and Winter terms and no more than 1.0 credit in each of the Summer terms.
4. Once students have completed 4.0 credits in the Faculty of Arts & Science, their College Registrar may consider a request for an exception to the above limits; the Rotman Commerce Program Office considers requests for an exception for Bachelor of Commerce students. The College Registrar or Rotman Commerce Program Office, following Faculty guidelines, has the discretion to approve or deny such requests. Special consideration will not be granted on the basis of, and final examination schedules may be affected by, a course overload.
5. Students restricted to a reduced course load on admission may take no more than 1.5 credits in a Fall or Winter term unless approved by their College Registrar, and no more than 2.5 credits overall during the Fall/Winter Session. They may take a maximum of 1.0 credit in the Summer Session. Students restricted to part-time studies who wish to transfer to full-time studies should consult with their College Registrar.
6. To calculate course loads, students should consult this Calendar together with the Timetable. The codes "Y1" or "H1" in a course code in the Calendar indicate the credit value:

Y1 = a full-credit course (1.0 credit), for which one credit is given (e.g., ANT100Y1)

H1 = a half-credit course (0.5 credit), for which one half credit is given (e.g., HIS332H1)

7. In the Timetable a section code is associated with a course code to indicate when the course is offered:

F = "First Term;" the first term of the Fall/Winter Session (September – December) or the first term of the Summer Session (May-June)

S = "Second Term;" the second term of the Fall/Winter Session (January – April) or the second term of the Summer Session (July – August)

Y = full session; the entire Fall/Winter Session (September – April) or the entire Summer Session (May – August)

8. Students should note that courses designated as "...Y1F" or "...Y1S" in the Timetable are particularly demanding.

Full-Time and Part-Time Status

Full-time Status

- A student enrolled in 3.0 credits or more in the Fall/Winter Session is full-time.
- A student enrolled in 1.5 credits or more in the Summer Session is full-time.

Part-time Status

- A student enrolled in 2.5 credits or fewer in the Fall/Winter Session is part-time.
- A student enrolled in 1.0 credit or fewer in the Summer Session is part-time.

Extra Courses

Extra courses appear on a student's academic record with a final course mark and are noted as "EXT". Extra courses do not count for degree credit and are not included in calculating a student's Grade Point Average. However, Extra courses may count in other respects, such as to satisfy program requirements or Breadth Requirements.

Each course with a mark of 50% or higher/P/CR counts for credit towards a degree unless:

- the course has already been passed and is being repeated (see 1. below), or
- the course lists as an exclusion another course that has already been completed (see 2. below)

1. Repeating Passed Courses

Students (both degree and non-degree) may not repeat any course in which they have already obtained credit (a mark of 50% or higher/P/CR) with two exceptions:

i) When students need to achieve a minimum mark in a course for entry to a limited enrolment program or for meeting a prerequisite to take another course in their program, they may repeat such a course once. The second attempt at the course would normally be marked Extra, unless the mark obtained in the second attempt is higher, in which case the first attempt would be marked Extra to a maximum of 2.0 credits overall. If the second attempt must be marked Extra due to an exclusion, this status must remain (see Second Attempt for Credit, below). Extra courses do not contribute to grade point average calculations or to the overall number of degree credits.

ii) Students may repeat up to 1.0 credit in courses which they have already obtained credit, for reasons other than to meet a minimum mark for entry to a limited enrolment program or for course prerequisite purposes. The repeated course will be designated Extra; extra courses do not contribute to grade point average calculations or to the overall number of degree credits. Students may not use this one-time-only allowance to subsequently repeat a passed course again after having repeated the same course for reasons noted in i) above, i.e., they may repeat a specific passed course only once.

Students requesting to repeat a course must do so at their College Registrar's Office, where they will receive appropriate advising and will be enrolled in the course, provided there is space available, only after other degree students have had an opportunity to enrol.

Second Attempt for Credit

The second attempt at a previously passed course can be counted toward grade point average calculations and the overall number of degree credits, for up to a maximum of 2.0 credits overall. If, however, the second attempt would be marked Extra due to an exclusion, that Extra status must remain. The second attempt must be taken in September 2021 or later; this policy does not apply to courses taken as a second attempt prior to September 2021.

The second attempt at the course must have been undertaken for one of the following reasons (i, above):

- achieving a minimum mark (whether set or variable) in a course for entry to a limited-enrolment program (Specialist, Major, Minor),
- or meeting a prerequisite to take another course in their program (Specialist, Major, Minor)

The Second Attempt for Credit cannot be invoked for a second attempt at a previously passed course for reasons other than the two identified above; therefore it cannot be invoked for the 1.0 credit that may be repeated for other reasons (as describe in ii, above). This option also cannot be used to transfer an Extra status to a first attempt from a previous completed degree.

In the case where the mark in the second attempt is higher, the Extra designation will be added to the initial attempt to a maximum of 2.0 credits overall. Students do not need to submit a request to initiate this process. The initial attempt will therefore not be included in grade point average calculations or the overall number of degree credits. Academic standing from prior academic sessions will not be reassessed. Note, an initial attempt may include a direct-equivalent transfer credit.

The Extra designation will be applied to either the first attempt or the second attempt once the final mark in the second attempt of the course is posted. The Extra designation will only be applied to the first attempt to a maximum of 2.0 credits overall.

2. Exclusions

Students may not receive degree credit for a course that lists as an exclusion a course they are currently taking or a course they have already passed. If they enrol in such a course, they may be removed at any time during the enrolment period at the discretion of the department. If allowed to remain enrolled in an excluded course, the second course taken will be designated Extra.

Credit/No Credit (CR/NCR)

Degree students in the Faculty of Arts & Science may select up to 2.0 credits to be assessed on a Credit/ No Credit (CR/NCR) basis. This option is available for Arts & Science degree students taking courses offered by the Faculty of Arts & Science, the John H. Daniels Faculty of Architecture, Landscape and Design (Daniels), the University of Toronto Mississauga (UTM), or the University of Toronto Scarborough (UTSC). Some courses may not be eligible for CR/NCR -- refer to the Academic Calendar of the relevant division. This option is not available to Arts & Science non-degree students.

Students who select a course to be assessed on a CR/NCR basis will not be identified individually to the instructor teaching that course; they will be assessed in the same way as all other students in the course (will have the same assignments and tests and will be evaluated with the same expectations).

Deadline

Students can choose or remove this mode of assessment on ACORN no later than the last day of classes. Once the deadline has passed, students may not reverse this decision.

Eligibility for CR or NCR

To achieve a status of CR (Credit) in a course, a student must achieve a final mark of at least 50%. Courses with a final status of CR will count as degree credits but will have no effect on the student's Grade Point Average (GPA) calculation. They can also count toward the Breadth Requirements, but cannot normally be used to satisfy program completion requirements (Specialist, Major, Minor) or the 12.0 distinct credits between programs required for the degree. See the Calendar sections on Degree Requirements for details.

A course with a final mark below 50% will be assessed as NCR (No Credit). Courses with a final status of NCR will not count as degree credits, and will also not be included in the GPA calculation.

If a student has specified the CR/NCR option for a course in which an academic offence has been committed, the CR/NCR option will be revoked and the percentage mark will stand as the course mark.

The following courses are ineligible for CR/NCR: courses where an individual student works on independent study or individual research supervised by a professor; Research Opportunity Program (299s/ 399s)/ Research Excursions (398s); First-Year Foundations Seminars; First-Year Foundations Ones Program courses; Rotman Commerce (RSM) courses; field courses; courses evaluated on a Pass/Fail basis. Other approved exceptions will be noted in the course description in the Calendar.

Important Notes and Limitations of CR/NCR

The underlying mark of a course completed on a CR/NCR basis will not be released or reported in any way. The Faculty cannot determine how an external body may read or interpret the use of CR/NCR on a transcript. If a specific mark may be required in a course for professional or graduate school applications or for other reasons in the future, students should avoid selecting the CR/NCR option. Students may wish to seek academic advising at their College Registrar's Office when considering the use of CR/NCR.

Students who transfer to the Faculty of Arts & Science from John H. Daniels Faculty of Architecture, Landscape and Design (Daniels) , University of Toronto Mississauga (UTM) or University of Toronto Scarborough (UTSC) will have all Daniels, UTM, and UTSC CR/NCR options (if any) included in their Arts & Science academic record. These CR/NCR options are counted towards the 2.0 credits maximum.

Special note to graduating students

The CR/NCR option is only open to degree students. Once students have graduated, they become non-degree students and they may not complete courses on a CR/NCR basis, even if they enrolled in the course before their graduation. For example, if a student is graduating in the Spring and they select the CR/NCR option for a Summer course, or if a student is graduating in the Fall and they select the CR/NCR option for a Fall or Winter course, the CR/NCR option will be removed upon graduation and a percentage mark will appear on the student's record.

Courses that are not eligible to be taken as CR/NCR

The following courses are ineligible for CR/NCR: courses where an individual student works on independent study or individual research supervised by a professor; Research Opportunity Program (299s/ 399s)/ Research Excursions (398s); First-Year Foundations Seminars; First-Year Foundations Ones Program courses; Rotman Commerce (RSM) courses; field courses; courses evaluated on a Pass/Fail basis. Other approved exceptions will be noted in the course description in the Calendar.

Cancelling Courses

Students who do not intend to complete a course or courses must cancel the course on ACORN before the final date to cancel courses without academic penalty (see [Academic Dates and Deadlines](#)). Students still enrolled in a course after the final date to cancel the course will receive a mark for that course (unless [Late Withdrawal](#) is requested). Not attending classes, ceasing to complete further course work, and/or not writing the examination do not constitute grounds for cancellation without academic penalty from a course after the cancellation deadline; the course remains on the record with the mark earned, including a zero for incomplete work.

Students are not permitted to cancel or withdraw from a course in which an allegation of academic misconduct is pending from the time of the alleged offence until the final resolution of the allegation. Should the resolution include a sanction for academic misconduct, students cannot subsequently cancel or request withdrawal from the course.

Late Withdrawal After the Drop Date (LWD)

The Faculty of Arts & Science has a mechanism to assist students, in conjunction with their College Registrars, to remedy situations, particularly in their early years at university, where personal or other circumstances mean they are irretrievably behind in a course. Students who have fallen behind with assignments or are not at all prepared to write exams in one or more of courses can contact their College Registrar's Office to discuss a Late Withdrawal After the Drop Date (LWD) from the course.

Degree students in the Faculty of Arts & Science may request Late Withdrawal After the Drop Date (LWD) – to withdraw from a course without petition – for a total of 3.0 credits, provided such a request is made by the last day of classes in the relevant term. Non-degree students may also request LWD, provided they do not exceed the 3.0 credits maximum throughout their combined degree and non-degree studies.

Withdrawals approved under this procedure will be noted on the academic record by the course status LWD. This course status will have no effect on the [Grade Point Average](#) (GPA) or other elements of the academic record.

Students seeking to avail themselves of this remedy will be expected to work with their College registrarial advisor to analyze what led to their situation, to discuss what steps they can take to prevent it from happening again, and to learn from their experiences.

Students who transfer to the Faculty of Arts & Science from the University of Toronto Mississauga (UTM), or the University of Toronto Scarborough (UTSC), or the John H. Daniels Faculty of Architecture, Landscape and Design (Daniels) will have all UTM/UTSC/Daniels LWD requests (if any) included in their Arts & Science academic record. These LWD requests are counted towards the 3.0 credits maximum.

Note that the option for Late Withdrawal is not available if an allegation of academic misconduct is under investigation. If LWD was previously granted in the course, it will be revoked and the percentage grade will stand as the course grade.

Please note: Students who have not achieved final standing (a final passing mark/P/CR) in at least one course in the Faculty of Arts & Science who cancel their registration must re-apply for admission through the Ontario Universities Application Centre if they wish to return in the future. Late Withdrawal (LWD) does not constitute final standing in a course.

Prerequisites, Co-requisites, and Exclusions

Prerequisites and co-requisites are established by academic units to ensure that students enrolling in a course have the necessary academic preparation to be successful. Students are responsible for fulfilling prerequisites and co-requisites, and if they enrol in a course for which they do not have the published prerequisites or co-requisites, it is at the discretion of the academic unit to cancel their enrolment in the course at any time during the enrolment period. If students withdraw from a course, they must also withdraw from any course for which it is a co-requisite unless the academic unit offering the latter course agrees to waive the co-requisite.

An exclusion is a course that is deemed to have content that significantly overlaps with another course. Prerequisites, co-requisites, and exclusions will be listed below the course description.

Prerequisite

A course (or other qualification) required as preparation for enrolment in another course. Prerequisites must be completed in advance of enrolment in a course. If students consider that they have equivalent preparation, they may ask the academic unit to waive the stated prerequisite.

Co-requisite

A course to be undertaken concurrently with another course. If a student has previously passed the co-requisite course, the academic unit will waive the co-requisite.

Recommended Preparation

Background material or courses that may enhance a student's understanding of a course, but that are not required for enrolment in the course.

Exclusions

Students may not receive degree credit for a course that lists as an exclusion a course they are currently taking or a course they have already passed. If they enrol in such a course, they may be removed at any time during the enrolment period at the discretion of the department. If allowed to remain enrolled in an excluded course, the second course taken will be designated Extra.

Taking Courses Outside the Faculty

Courses at the University of Toronto Mississauga (UTM), the University of Toronto Scarborough (UTSC), and the John H. Daniels Faculty of Architecture, Landscape, and Design (Daniels)

Students registered in the Faculty of Arts & Science may enrol in most courses offered by UTM, UTSC, and Daniels, provided that they meet the enrolment controls and prerequisites established by those divisions. While still considered an earned credit, any course from UTM/UTSC/Daniels taken in excess of 10.0 credits will not count toward the 20.0 credits required for a Faculty of Arts & Science degree; the course will be included in the Cumulative Grade Point Average (CGPA) calculation. These courses may also count towards Faculty of Arts & Science program requirements; students should check with the relevant academic unit before enrolling. Faculty of Arts & Science students enrolling in UTM, UTSC, and Daniels courses should also note that, although academic and course refund deadlines may be different for UTM/UTSC/Daniels students, as a Faculty of Arts & Science student they must adhere to all Faculty of Arts & Science deadlines (e.g. enrolment, cancellation, CR/NCR, refund, etc.), with the exception of the start and end of classes.

Non-degree students in the Faculty of Arts & Science may enrol in Arts & Science, UTM, UTSC, and Daniels courses, provided that they meet the enrolment controls and prerequisites established by those divisions.

Graduate Courses Sponsored by a Faculty of Arts & Science Academic Unit

In exceptional circumstances, undergraduate degree students in the Faculty of Arts & Science may be granted permission to count a graduate course sponsored by a Faculty of Arts & Science academic unit toward their undergraduate degree. Students are expected to have already exhausted all undergraduate courses available in the Faculty in the relevant subject area before requesting to enrol in a graduate course sponsored by a Faculty of Arts & Science academic unit. Note that not all Faculty of Arts & Science academic units will allow undergraduate enrolment in a graduate course, even in exceptional circumstances; others may require a minimum GPA and/or the instructor's permission. Please contact the relevant Graduate Unit for details.

For degree requirement purposes, a graduate course will count as a 400-level course. Permission to count a graduate course toward a student's program requirements is a separate matter and at the discretion of the relevant academic unit.

Courses of Other Divisions at the St. George Campus

Students should select their courses from those offered in the Faculty of Arts & Science. If, however, they identify a course(s) offered in a division, faculty or school of the University (other than the Faculty of Arts & Science, the University of Toronto Mississauga, the University of Toronto Scarborough, or the John H. Daniels Faculty of Architecture, Landscape, and Design, see above), including a graduate course sponsored by an academic unit outside of the Faculty of Arts & Science, that may be appropriate for inclusion in their program(s), they may request permission to enrol or remain enrolled in the course for degree credit. A student will obtain permission from the division, faculty, or school offering the course, and obtain confirmation from the relevant undergraduate academic unit that the course may be used to fulfill the requirements of one of their programs.

Students should initiate the procedure well in advance of the beginning of classes, so that they may choose alternate courses if permission is not granted. If permission is granted, the academic unit that will count the course towards a program will arrange to enrol the student in the course (unless enrolment has already taken place.)

Non-degree students in the Faculty of Arts & Science may enrol only in Arts & Science, UTM, UTSC, and Daniels courses. They may not request permission from the Faculty to enrol in courses from other divisions.

Courses of Other Universities (Letters of Permission and Transfer Credit)

Degree students who have completed the first session (Fall/Winter or Summer) in the Faculty of Arts & Science with a Cumulative Grade Point Average (CGPA) of at least 1.50 and are in good standing may be eligible for transfer credit for courses taken at another post-secondary institution. Students admitted with transfer credit may be limited in the number of post-admission and/or Letter of Permission transfer credits that they can use toward the 20.0 credits required for their degree, since students must complete at least 10.0 credits in the Faculty of Arts & Science toward their degree. Transfer credits received as a result of studies completed on an exchange program contribute toward this minimum 10.0 credit requirement. Review the Faculty of Arts & Science website to determine how many post-admission and/or Letter of Permission transfer credits can contribute toward the 20.0 credits required for your degree.

Prior to taking courses at a Canadian university, students are advised to request a Letter of Permission to confirm acceptability of those courses for transfer credit. For other universities, students may submit a request for transfer credit after completing courses elsewhere; note that there is no guarantee that transfer credit will be awarded. Permission obtained from an instructor or from an academic unit for program purposes does not obligate the Faculty to grant transfer credit. Assessments of transfer credit may take several weeks to process depending on the time of year and the nature of the request. Applicants are responsible for submitting requests well in advance of any deadlines they must meet and for obtaining advising as necessary concerning the Letter of Permission and Transfer Credit processes.

Note that only 1.0 credit in transfer credits at the 300+ level may be used to satisfy the degree requirement of a minimum of 6.0 credits at the 300+ level, except for 300+ level transfer credits received as a result of an exchange program. All 300+ level transfer credits received from studies completed on an exchange program can contribute toward the 300+ level degree requirement. Please refer to the Letters of Permission and Transfer Credit (Post-Admission) Guidelines on the Faculty of Arts & Science website.

Fees

Tuition fees normally consist of academic fees and compulsory non-academic incidental fees (which provide access to student services including Hart House, Health Services, Athletics and student organizations). Additional ancillary fees (such as lab fees) may also be billed for enrolment in some specific courses.

More information, as well as the University's policy on ancillary and incidental fees can be found in the [Office of the Vice-Provost, Students website](#).

Any [changes to fees](#) (tuition, incidental, or ancillary) are subject to approval by the Governing Council, and come into effect in the Summer session.

More information can be found on the [Student Accounts website](#).

Financial Assistance

A limited number of in-course bursaries, scholarships and awards are available to students who need financial assistance or who qualify for them on the basis of academic merit. Information on these, and the Ontario Student Assistance Program, is available on the following websites:

- [Faculty of Arts & Science](#)
- [Enrolment Services](#)
- [College Registrars' Offices](#)

Graduation

There are two graduation periods for Faculty of Arts & Science students: Spring Convocation and Fall Convocation. Students can request graduation on ACORN during the relevant timeframe.

For students graduating in the Spring, only courses completed by the end of the preceding Winter term (ending in April) will be included in the assessment of the student's eligibility to graduate. For students graduating in the Fall, only courses completed by the end of the preceding Summer Session (ending in August) will be included in the assessment of the student's eligibility to graduate.

Prospective graduands receive an email from the Office of Convocation in March (for Spring graduation) or in October (for Fall graduation) providing details of the convocation ceremony. The Office of the Faculty Registrar will contact students at least two weeks in advance of the relevant convocation ceremony to confirm their eligibility to graduate.

Recognition of Exceptional Academic Achievement: “High Distinction” and “Distinction”

Students who graduate with a Cumulative Grade Point Average (GPA) * of 3.50 or above are described as graduates “With High Distinction.” This achievement is noted on the diploma and transcript.

Students who graduate with a Cumulative GPA* of 3.20 to 3.49 are described as graduates “With Distinction.” This achievement is noted on the diploma and transcript.

*Note that the Cumulative GPA must be based on at least 5.0 credits taken for Faculty of Arts & Science degree credit.

Off-Campus Opportunities

Field Courses

Field courses take place away from the university campus and are sometimes an international opportunity. Most field courses have a very small class size which provides an opportunity for students to interact closely with the course instructor(s), and to collaborate with other students who share the same interests. Field courses are normally held during the Summer session for two to three weeks.

A small number of academic units in the Faculty of Arts & Science offer field courses. Please refer to the following websites for information about eligibility, cost and application process:

- [Department of Anthropology](#)
- [Department of Ecology & Evolutionary Biology](#)
- [Department of Earth Sciences](#)
- [Forestry Program](#) (John H. Daniels Faculty of Architecture, Landscape, and Design)
- [Department of Physiology](#) (Temerty Faculty of Medicine)

International/Indigenous Course Module

The Faculty of Arts & Science's International or Indigenous Course Module Program (IICMs) provides an opportunity for faculty members to incorporate an intensive international or Indigenous experiential module into the framework of existing undergraduate courses. IICMs are a great way to combine academic study with a short-term international experience. Professors lead IICM trips over the Fall or Winter Reading Week in conjunction with specific courses. International opportunities may include partnerships developed with Indigenous nations both within Canadian borders and beyond.

For more details, including current opportunities, please refer to the information on the [Faculty of Arts & Science website](#).

Learning Abroad Experiences

There are different types of Learning Abroad Experiences, for study, research and professional experience, in short-term, Summer, Fall/Winter, or year-long opportunities. For more information, visit the [Learning Abroad website](#).

Arts & Science Internship Program

The Arts & Science Internship Program (ASIP) is a professional work-integrated learning program for Faculty of Arts & Science students enrolled in specific programs of study. Students enrolled in the ASIP stream of their program of study complete mandatory Professional Development programming plus a minimum of 12 and maximum of 20 months of paid, full-time, academically related work experience. Normally, students enrolled in ASIP take five years to complete their degree. The ASIP stream of each program is limited enrolment. Students will typically be admitted to the ASIP stream of their program for the Fall term of Year 2 of study. The cost to students to participate in the full program will be \$3600, paid over a series of six installments. ASIP is administered by the Faculty of Arts & Science's Experiential Learning & Outreach Support (ELOS) Office. More details about the program can be found on the [ASIP webpage](#).

Research Excursions Program

The 398 Research Excursions Program (REP) provides an opportunity for Arts & Science (St. George) degree students in their third year (i.e. students who have completed at least 9.0 but not more than 16.0 credits by the end of the Winter term preceding the REP) to participate in an off-campus practical or experiential research activity, under the supervision of a faculty member. The practical, experiential component can take the form of research/learning in archives, laboratories, libraries, or in a field camp, etc.— but not in a classroom at another university (that is covered by the Faculty's summer abroad and exchange programs). REPs may take place in domestic or international locations. The projects run within the May-August period, when both faculty and students can make the time commitments necessary. The Faculty of Arts & Science covers travel and living expenses for students. Regular tuition fees apply.

For more information, refer to the [Faculty of Arts & Science website](#).

Summer Abroad

The Summer Abroad programs are designed to enrich students' academic lives by providing an exciting and educational international experience. Students complete full-year University of Toronto undergraduate degree credit courses from the Faculty of Arts & Science that are relevant to each location. Relatively small classes (about 25 students on average) are taught by University of Toronto professors or faculty from the host university, for a period of 3 to 6 weeks. All classes, except for language courses, are taught in English. All Summer Abroad courses and grades show on students' transcripts as regular U of T credits and are calculated into their CGPA.

For more information about a list of courses, locations, eligibility, cost and other information, please refer to the [Summer Abroad website](#).

Global Classrooms

Students interested in increasing their global fluencies are welcome to explore the latest Global Classrooms offerings by visiting the [Learning & Safety Abroad's Global-At-Home website](#).

Petitions and Appeals

In This Section:

- [Petitions to the Faculty](#)
- [Types of Petitions](#)
- [Appeals](#)

Students are responsible for observing sessional dates, course prerequisites, exclusions, satisfying the degree requirements, and following the rules and regulations in the Calendar and the Academic Dates & Deadlines webpage. Failure to follow regulations, requirements and deadlines may result in academic and/or financial consequences or penalties, and failure to familiarize oneself about these will not be accepted as sufficient rationale to avoid these consequences. Students should always consult their College Registrar's Office immediately for guidance if anything happens that interferes with continuing or completing their courses, or that appears to be contrary to rules, regulations and deadlines.

Special Consideration Requests to Academic Department(s)

Special consideration requests to academic department(s)/unit(s) (sometimes called Academic Appeals) concern issues arising within a course that relate to the pedagogical relationship of the instructor and the student, such as the organization of a course, or grading practices. These fall within the authority of the academic unit sponsoring the course and are not under the purview of Faculty petitions. Students are encouraged to discuss any issues regarding the academic aspects of a course first with the instructor. It is recommended that such discussions be documented in writing where possible. The successive stages of special consideration request after the course instructor must be submitted by the student in writing. These successive stages are: 1) the Associate Chair, Undergraduate (or equivalent); 2) the Chair or Program Director of the Academic Unit; 3) the Office of the Dean, Faculty of Arts & Science. A special consideration request must have been reviewed at the academic unit level before being referred to the Dean's Office; requests to the Dean's Office must be in writing.

Petitions to the Faculty

Students considering petitioning should review the [Arts & Science Petitions](#) webpage for additional and more specific information, in addition to the Academic Calendar.

Petitions to the Faculty concern issues relating to degree requirements, academic regulations, deadlines, examinations, and administrative rules. The Faculty recognizes that an exception to Faculty policies may be warranted when unpredictable and exceptional circumstances impact a student's academic progress. As part of a petition request, students will need to provide a statement explaining the extenuating circumstances they experienced, the impact of those circumstances on their academic progress, and the steps they took to mitigate the impact of the circumstances on their academic progress. Students must provide sufficient documentation supporting the information reported in their personal statement. Students are requested to present their entire case from the outset, demonstrating that they acted responsibly and with good judgment in attempting to observe Faculty policies and regulations. All petitions submitted to the Faculty are reviewed in a consistent and equitable manner. A petition is considered in confidence by the Faculty petitions office on behalf of the Committee on Standing, which is responsible for interpreting and administering the regulations of the Faculty. There is no guarantee that a petition will see a successful outcome.

Students considering submitting a petition to the Faculty are encouraged to seek academic advising from their College Registrar's Office.

It is the responsibility of the student to provide a valid U of T email address to which a petition decision may be sent.

Deadlines to Submit Petitions

The deadlines for petitions are strictly enforced. Students must submit a petition by the deadline associated with the petition type (see below). If there are compelling reasons why a petition is being submitted after the deadline, the student must explain the reasons for the late submission in their personal statement and provide relevant documentation to support their rationale. The issue of lateness must be satisfactorily resolved before the substance of the petition is considered. Late petitions without sufficient reason for lateness will not be granted, no matter how compelling.

The deadline for each petition type is referenced under each petition type below.

Types of Petitions

Petitions for Term Work Extension(s) (see also Term Work, Tests and Final Exams)

Matters concerning term work normally fall within the authority of the instructor. Students unable to comply with given deadlines must contact their instructor prior to the deadline to request an extension to the deadline or other solution. Students should expect no consideration if an issue is raised after the assignment deadline, unless unpredictable circumstances arose shortly before the deadline that prevented them from meeting the deadline.

All term work must be submitted by the date specified by the instructor. Instructors may grant individual students extensions up to five business days after the end of the examination period, provided that a student presents legitimate reasons with appropriate documentation. Extensions beyond five business days after the end of the examination period can be approved only through a petition. Students are expected to consult with their instructor about a proposed deadline before petitioning for an extension of time. The Faculty petitions office, under the authority of the Committee on Standing, may consult with the relevant academic unit for information about the status of the course work, proposed deadline, and the steps, if any, that must be taken to complete the course work. Students are expected to continue working on the outstanding assignments while they await a decision.

When a term work extension petition has been granted for work in a course, a notation of "SDF" (standing deferred) is placed on the transcript in place of a final mark. Students who have the notation of SDF for a course who have earned a Cumulative Grade Point Average (CGPA) of less than 1.50 are strongly encouraged to include in their personal statement an academic plan for the term in which they will be completing the outstanding work. The Faculty reserves the right to limit registration or course load in a subsequent session for students who have outstanding academic obligations from a previous term. Students who find themselves in this situation are strongly encouraged to seek academic advising from their College Registrar's office.

Deadline: The deadline to submit a petition for a term work extension is five (5) business days after the last day of the examination period for the term in question. The deadline to submit a petition for a further extension on term work is five (5) business days after the deadline outlined in the original petition decision. All documentation supporting petitions must be submitted as soon as possible, and no later than three (3) weeks after the date the student submits the petition. Refer to the Supporting Documentation for Petitions section below for more details. See the Deadlines to Submit Petitions section above for information on late submission of a petition.

Petitions for Withdrawal Without Academic Penalty (WDR)

A student may petition the Faculty for a withdrawal without academic penalty when they feel that they were unable to complete a course due to extenuating circumstances outside their control. Typically, a withdrawal petition is pursued when no other type of petition request (like term work extension, or a deferred final exam) will remedy the situation.

It is important to note that students who intend to finish a course, and therefore do not drop the course themselves (either by the last day to cancel on ACORN, or through their College Registrar's office for an "LWD"), assume responsibility for the course. The Faculty assumes that students who stay in a course to the end have assessed their progress and marks and decided to take the course to completion (i.e. they have written the final examination or final piece of term work (in

courses without a final examination)), regardless of any circumstances. Therefore, a withdrawal without academic penalty petition has a much lower chance of success when a student has taken the course to completion.

If a withdrawal without academic penalty petition is granted, the course is not removed from the transcript, but the notation "WDR" is placed on the transcript in place of a final mark. Once a WDR has been placed on the student's academic record, no credit is received for the course and there is no impact on any GPA.

Please note that a granted WDR does not have any impact on fees. Because a WDR is granted beyond any fee refund deadlines, students are still responsible for any tuition or other fees incurred.

Deadline: The deadline to submit a petition for WDR depends on the session. For Fall/Winter Session courses, the deadline is the following 15 November. For Summer Session courses, the deadline is the following 28/29 February. All supporting documentation must be submitted as soon as possible, and no later than three (3) weeks after the date the student submits the petition. Refer to the Supporting Documentation for Petitions section below for more details. See the Deadlines to Submit Petitions section above for information on late submission of a petition.

Petitions for Examinations

Students are expected to write their examinations as scheduled. Petitions based on travel, employment, or personal plans will not be considered as students are expected to make themselves available during the published Examination Period to write final examinations.

Deferred Examinations: In situations where a student is unable to write their final exam due to extenuating circumstances (e.g. illness), they may request a deferral. A student who is too ill and/or incapacitated at the start of the exam, should not attempt to write the exam. Instead, they should submit a petition for a deferred examination.

Re-Deferred Examinations: Students who miss a deferred examination will receive a mark of zero for the examination in the calculation of the final grade. Only under exceptional circumstances (e.g., hospitalization or significant personal emergency), supported by strong documentation, will a petition for a second deferral of the examination be considered.

Examination Re-Writes for In-Person Final Exams: Students who write an examination may not petition to rewrite it, except under extraordinary circumstances such as a sudden acute illness during the examination. If a student becomes suddenly and acutely ill at an in-person examination and needs to abandon the examination, they must notify the Chief Presiding Officer (CPO) immediately, sign the appropriate form and promptly leave the examination to seek medical attention. The personal statement reporting illness requires both corroboration from the CPO and documentation from a licensed health care professional on the day of the examination. Students who leave the examination hall without notifying the CPO will be assumed to have completed the examination. Having once abandoned an examination, a student should be aware that consideration may not be given again for the same circumstances.

Examination Re-Writes for Online Final Exams: Students who encounter extenuating circumstances during an online final exam should immediately contact their course instructor and follow the instructions they provide.

Important Notes:

When a petition for an examination has been granted with respect to a course, a notation of SDF (standing deferred) is placed on the transcript in place of a final mark. After the examination is written, the SDF will be replaced with the final grade in the course. Decisions of approved petitions for examinations advise students of the examination period in which the examination will take place, and whether the examination will be a special examination at an alternate examination period or the regular examination with the next offering of the course. If a petition for an examination is granted and is to be written in a subsequent term, the student is strongly encouraged to reduce their course load in that term to allow time for preparation of the petitioned examination.

To write a petitioned examination, students must pay a fee of \$73.50 per petitioned examination (maximum \$147.00 for multiple requests in the same petition) by the deadline provided in the petition decision. Students who have paid the petitioned examination fee by the published payment deadline will receive their personal petitioned examination schedule. Students who do not pay the fee may not be eligible to write the petitioned examination, nor can a missed payment be the basis to petition for a further deferral of the examination.

When a student misses a petitioned examination sitting, they should immediately seek academic advising from their College Registrar's Office submitting a petition for a further deferral of their unwritten final examination. If the student does

not write a petitioned examination, the "SDF" notation will be replaced by the original grade, with a grade of "0" for the final examination in the calculation of the final grade.

Students who must write a petitioned examination in a course that serves as a prerequisite for subsequent courses may enrol in those subsequent courses provided they obtain the approval of the academic unit concerned and provided the term mark in the prerequisite (deferred) course is at least 60%. If approval from the academic unit is not obtained, there is a risk that students may be removed from the subsequent course during a prerequisite check and reinstatement may not be possible if the course is full.

Students who have the notation of SDF on a course and who have earned a Cumulative Grade Point Average (CGPA) of less than 1.50 are strongly encouraged by the Faculty to include in their personal statement an academic plan for the term in which they will be completing the outstanding exam(s). The Faculty reserves the right to limit registration or course load in a subsequent term for students who have outstanding academic obligations from a previous term. Students who find themselves in this situation should seek academic advising from their College Registrar's office.

Deadline: The deadline to submit an examination-related petition with supporting documentation (i.e., deferred examination, re-deferred examination and/or examination re-write petition) is three (3) business days after the examination date. Refer to the Supporting Documentation for Petitions section below for more details.

Please note that the deadline to submit an examination-related petition for courses from other divisions may be different from the Faculty of Arts & Science deadline. Visit relevant divisional Calendars for specific dates and deadlines. See the Deadlines to Submit Petitions section above for information on late submission of a petition.

Supporting Documentation for Petitions

A petition request should include documentation that provides pertinent evidence to support the information disclosed. This will be used to determine whether an exception to the Faculty's policy or guidelines should be granted or not, in order to ensure equitable treatment for all students. If the reasons cited in a petition are of a medical nature, the preferred medical documentation at the University of Toronto is the University's Verification of Illness or Injury Form. Students must submit the Verification of Illness or Injury form when submitting a petition to their College Registrar's office. This form may only be completed by approved licensed practitioners as listed on the form. The form can be found at www.illnessverification.utoronto.ca.

If illness is being presented as the reason for the petition request, this alone may not necessarily be sufficient grounds to guarantee an approval of the request. All cases are examined in their entirety before a decision is made. An illness or injury's duration and level of impact on academic functioning are considered along with other relevant factors in the context of the course at issue. Note that the practitioner's report must establish that the patient was examined and diagnosed at the time of illness, not after the fact. If the practitioner's report does not explicitly establish this, then the Faculty reserves the right to use its discretion in accepting the report as supporting documentation for the reported illness.

If the reasons cited for a petition request are of a non-medical nature, then the supporting documentation may come in various forms. Consult with your College Registrar's office and the Arts & Science Petitions webpage for more information on possible types of supporting documentation that should be submitted in other circumstances.

Appeals

Any student looking to appeal a denied request is strongly encouraged to seek academic advising from their College Registrar's office. If a student's initial petition is denied, they may appeal (through the following stepwise processes).

1. **Committee on Standing (COS):** The Committee on Standing will review an appeal request with new information not presented in the original petition request or reporting a procedural irregularity within 90 days of the original petition decision date. Appeals must be submitted to the student's College Registrar's office.
2. **Faculty Academic Appeals Board (AAB):** To appeal a denied COS appeal, students must submit their request in writing to their College Registrar's office within 90 days of the COS decision. An appeal request should include new information not presented with the COS appeal or a report of a procedural irregularity.

3. **Academic Appeals Committee of the Governing Council:** To appeal a denied AAB appeal, students must submit a Notice of Appeal and other related documents to the Academic Appeals Committee of the Office of Appeals, Discipline and Faculty Grievances (ADFG) of Governing Council in Simcoe Hall within 90 days of the AAB decision. Students considering submitting an appeal to the Academic Appeals Committee of the Governing Council should carefully review the instructions outlined here: governingcouncil.utoronto.ca/processes/academic-appeals.

Term Work, Tests, and Final Exams

In This Section:

- [Term Work and Tests](#)
- [Final Exams](#)
- [Reassessment of Term Work, Final Exam or Course Marks](#)

Term Work and Tests

Term Work

Instructors shall return by the deadline one or more marked assignments worth a combined total of at least 10% of the total course mark for H courses and 20% for Y courses. The deadline for returning such marked work is the last regularly-scheduled class meeting prior to the deadline to cancel without academic penalty. Exceptions: 1) courses that run the entire Fall/Winter or Summer session (Y1Y or H1Y courses), the deadline is seven days after the start of the S-term; 2) courses that do not meet regularly (e.g., asynchronous online courses, independent study courses), the deadline is one business day prior to the deadline to cancel without academic penalty.

When submitting late term work due to extenuating circumstances, the student should contact their instructor ideally before the deadline but no later than one week past the deadline. Students should also refer to the course-specific late submission policy in syllabus (if any). All term work must be submitted on or before the last day of the final examination period, unless an earlier date is specified by the instructor. Any extension may be for no longer than five business days after the end of the final examination period. If additional time beyond this period is required, students must petition through their College Registrar on or before five business days after the end of the examination period for a further extension of the deadline. (See [Petitions and Appeals](#))

Students are strongly advised to keep rough and draft work and copies of their essays and assignments, as these may be required by the instructor.

All written work that has been evaluated should be returned to the student with such detailed comment as the instructor deems appropriate, and time made available for discussion of it. Any enquiries or appeals about a graded piece of work must be made to the instructor as soon as possible and no later than two weeks after the work was returned. Instructors must keep unclaimed term work for at least six months beyond the end of the course.

Term Work and Term Test Regulations

The following regulations summarize the Faculty's implementation of the University Assessment and Grading Practices Policy, Parts A and B, available on the [Governing Council website](#).

Marking Schemes

As early as possible in each course, and no later than the last date to enrol in the course, the instructor shall make available to the class, and shall file with the division/faculty or academic unit, the course marking scheme, i.e., methods by which student performance shall be evaluated. This should include whether the methods of evaluation will be essays, tests, class participation, seminar presentations, examinations, or other requirements; the relative weight of these methods in relation to the overall mark; and the timing of each major evaluation.

No essay, test, examination etc. in the marking scheme may be assigned a weight of more than 80% of the course mark. This limit does not apply when an instructor makes an accommodation at a student's request to take into account assessments missed for legitimate, documented reasons.

After the methods of evaluation and their relative weight have been made known by the last date to enrol in the course, the instructor may not change them or the relative weight of assessments without the consent of a simple majority of

students attending the class, provided the vote is announced no later than in the previous class. For online asynchronous courses, with advance notice, a vote may be held online; a simple majority of students who voted is needed as evidence of consent. Any changes must be reported to the division or the academic unit. The only exception to this is in the case of the declaration of a disruption. Please see the University's [Policy on Academic Continuity](#).

In the event that this policy has not been followed, a student should contact their College Registrar's office or the relevant academic unit.

Term Tests

No term test or combination of term tests held in the last two weeks of classes at the end of any term may have a total weight greater than 25% of the final mark. This includes term tests in Y courses held in December, and also includes "take-home tests" and assignments where the topics or questions are both assigned and due within the last two weeks of classes.

All term tests must be held on or before the last day of classes. No term test may be held during Fall and Winter Reading Weeks, during the Study Breaks in December and April, or during Faculty Examination Periods, except for those in Y courses scheduled by the Faculty in the December or June Examination Periods.

Missed Term Tests

Students who miss a term test for reasons beyond their control may, no later than one week after the missed test, submit to the instructor or academic unit a request for special consideration. Such requests should explain the reason for missing the test, and should include appropriate documentation. Students should refer to the [A&S Student Absences webpage](#) for more information.

A student whose special consideration request is granted by the academic unit will be entitled to a) a make-up test, or b) a re-weighting of the missed test to remaining term work and/or final exam in the course. If the student misses the remaining term work and provides legitimate grounds, the full percentage weight of the missed work may be allocated to the final exam.

Note that the weight of a final exam in a 100-level course may not be increased beyond 80% as an initial accommodation for a legitimate absence. However, if the student misses the make-up opportunity or subsequent test that was to be re-weighted, then the weight of the final exam may be increased beyond 80%.

In courses where the mid-term test is the only marked term work in the course other than the final examination, an initial make-up test opportunity normally must be given. Instructors may use their discretion, but typically students are not automatically entitled to a second make-up test opportunity. The academic unit will determine what consideration is appropriate for a student who misses a make-up test for legitimate reasons. It is important to note that a student who misses a term test cannot subsequently petition for withdrawal without academic penalty from the course on the grounds that they had no term work returned before the drop date.

Final Exams

Faculty Final Examinations

A Faculty final examination counting for between one-third and two-thirds of the final mark must be held in each 100-level course, unless exemption has been granted by the Faculty of Arts & Science. In 200-, 300- and 400-level courses, the Departments will decide whether or not an examination is appropriate. Courses at the 200-level will normally have a final examination. The ratio of term work to examination will be the same for all sections of multi-section courses that have final examinations. The relative value of each part of a written examination must be indicated on the question paper.

Final examinations are held at the end of each term. Students taking courses during the day may be required to write evening examinations, and students taking evening courses may be required to write examinations during the day. Examinations may be held on Saturdays or Sundays. Students who make personal commitments during the examination period do so at their own risk. No special consideration is given and no special arrangements are made in the event of conflicts resulting from personal commitments such as travel arrangements.

Students who are unable to write their examinations due to illness, etc., should contact their College Registrar (see [Petitions for Deferred Examinations](#)).

Students who have two Faculty final examinations in the same time slot, or three consecutive Faculty final examinations (e.g., morning, afternoon, evening; or afternoon, evening, next morning), should submit a [Final Examinations Conflict form](#) using their University of Toronto email account to exams.artsci@utoronto.ca no later than the deadline published on the A&S [Exam Conflicts](#) webpage.

Students who cannot write a final examination at the scheduled time due to a religious obligation should submit a [Final Examinations Conflict form](#) using their University of Toronto email account to exams.artsci@utoronto.ca as soon as the conflict is known, and no later than the deadline published on the A&S [Exam Conflicts](#) webpage. Requests received after the deadline may not be accommodated and failure to meet a deadline is not considered a valid reason to petition for a deferred exam.

For the most up-to-date examination timetable consult the Faculty's [Exam Schedule](#) webpage.

Rules of Conduct for In-Person Examinations

1. No person will be allowed in an examination room during an examination except the students concerned and those supervising the examination.
2. Students are expected at the examination room at least twenty minutes before the commencement of the examination.
3. Students are required to bring their photo identification (ID) that contains a current and visible photo and signature for identification purposes. Valid forms of photo ID include any one of the following:

- A) current University of Toronto Photo ID (TCard); or
- B) up-to-date Passport (any country, in English); or
- C) current Driver's License (any country, in English); or
- D) government issued photo ID (any province or territory).

Students who do not provide a valid photo ID before the start of the exam will not be allowed to take the final exam and will need to speak to their College Registrar's Office to discuss next steps.

4. Students shall place their non-smartwatch or timepiece on their desks – if the CPO cannot tell if it is wireless or Bluetooth capable, they will ask for it to be placed under the desk.
5. All coats and jackets should be placed on the back of each Student's chair. All notes, books, pencil cases, cell phones (turned off), laptops, any other electronic devices or unauthorized aids, and smaller bags like purses should be stored inside the student's knapsack or large bag, which should then be closed securely and placed under the student's chair. Students may not have a pencil case on their desk and any pencil cases found on desks will be searched and placed under the chair. All watches and timepieces on desks will be checked. Students are not allowed to touch their knapsacks or bags or the contents until the exam is over. Students are not allowed to reach into the pockets or any part of their coat or jacket until the exam is over.
6. The Chief Presiding Officer has the authority to assign seats to students.
7. Students shall not communicate with one another in any manner whatsoever during the examination. Students may not leave the examination room unescorted for any reason, and this includes using the washroom.
8. No materials or electronic devices shall be used or viewed during an examination, except those authorized by the Chief Presiding Officer or Examiner. Unauthorized materials include, but are not limited to: books, class notes, or aid sheets. Unauthorized electronic devices include any device that has internet/wireless/Bluetooth connectivity or

otherwise may communicate with another person or device outside the exam hall. The most obvious examples include cell phones, tablets/laptops, smart technology including smart watches or fitness devices with connectivity, and so forth.

9. Students who use or view any unauthorized materials or electronic devices while their examination is in progress - or who assist or obtain assistance from other students or from any unauthorized source - are liable to academic penalties under the Code of Behaviour on Academic Matters which can be severe.
10. In general, students will not be permitted to enter an examination room later than thirty minutes after the commencement of the examination, nor leave until at least half an hour after the examination has commenced. Any exception to this rule is made by the Chief Presiding Officer, and the Chief Presiding Officer will set the conditions for such an exception.
11. Students shall remain seated at their desks during the final ten minutes of each examination.
12. At the conclusion of an examination, all writing shall cease. The Chief Presiding Officer may seize the papers of students who fail to observe this requirement, and a penalty may be imposed.
13. Examination papers, books and other material issued for the examination, shall not be removed from the examination room except by authority of the Chief Presiding Officer.
14. The University is not responsible for personal property left in examination rooms.

Rules of Conduct for Online Examinations

Online examinations are administered by the academic unit. Students should refer to the instructions provided by the unit or the course instructor.

Reassessment of Term Work, Final Exam or Course Marks

Requests for Re-marking of Term Work

A student who believes an individual item of work has been incorrectly or unfairly marked may request that it be re-marked. Such requests should be made initially to the instructor in the course as soon as possible after the work was returned, and no later than two weeks after it was returned.

If an instructor refuses the request to re-mark a piece of work, or if the student believes the re-marking was incorrect or unfair, the student may appeal to the Undergraduate Coordinator (e.g., Associate Chair who is acting on behalf of the Chair) of the academic unit sponsoring the course.

Requests for re-marking beyond the academic unit should be made to the Office of the Dean. Such requests about the marking of term work must be made in writing. They will be reviewed to ensure that appropriate procedures have been followed in earlier requests, that the student has been treated fairly, and that the standards applied have been consistent with those applied to other students doing the assignment. The Office of the Dean is the final level of requests for re-marking in the Faculty of Arts & Science; no further level of request is possible.

A request for re-grading of a mark beyond the instructor for term work may only be made for an item worth at least 20% of the course mark.

All requests beyond the instructor must be made in writing in a timely manner after the student receives the final response from the instructor, but no later than two weeks after the work was returned, explaining why the student believes the mark was inappropriate and summarizing all previous communications in the matter.

Students making a request for remarking must accept that the resulting mark will become the new mark, whether it goes up or down or remains the same.

Requesting a Recheck of Calculation of a Course Mark

If a student believes that there has been an arithmetical error in calculating the course mark, a recheck can be requested. A recheck can be requested with or without requesting a photocopy or viewing of the final examination. The student must fill out a "Request for Recheck of Course Mark" form and submit it to the Office of the Faculty Registrar within six months of the final examination (see list of deadlines below). Whenever possible, the student should indicate precisely the location of the possible error. The academic unit concerned will check that the examination marks have been added correctly; the examination will not be reread. The academic unit will also check that all term work marks have been correctly calculated. There is no fee for the recheck of a course mark. If the mark is changed as a result of this review, any fees paid for an exam photocopy will be refunded.

Requesting a Reread of Faculty Final Examination

If a student believes that a final examination has been incorrectly marked in its substance, or that a portion of an examination has not been marked, a reread of the final examination may be requested. The student must first purchase a photocopy or request a supervised viewing of the exam. Once the exam has been reviewed by the student, a "Request for Reread of Final Examination" form must be submitted to the Office of the Faculty Registrar within six months of the final examination (see list of deadlines below). The student must demonstrate that the examination answers are substantially correct by citing specific instances of disagreement, supported by such documentary evidence as course handouts, textbooks, lecture notes, etc. The student must do more than assert that "I disagree with the marking," or that "I believe I deserve more marks." The academic unit concerned will reread the examination in light of the arguments presented. There is a \$37.75 fee for this procedure, which is in addition to the fee of \$16.25 charged for a photocopy of the final examination. If the mark is changed as a result of this review, both the photocopy fee (if paid) and the reread fee will be refunded. It should be noted that when a course is failed, the examination must be reread before the mark is reported.

Please note that a recheck or reread may result in a raised mark, a lowered mark, or no change. By requesting a reread or recheck a student agrees to abide by the outcome.

For some examinations, particularly those with multiple-choice questions and/or those designed to be read mechanically, there may be an answer key that is essential to the understanding of the marking of the examination. In such cases, an answer key should be included with the photocopy of the exam. If it is not, the student may contact the relevant department to see if one is available.

Forms are available at the Office of the Faculty Registrar, or on the [Faculty exam webpage](#).

Deadlines to request a recheck or reread can be found on the [Faculty exam webpage](#).

Withdrawal and Return from Absence

In This Section:

- [Voluntary Leave](#)
- [Cancelling Registration](#)
- [Undergraduate Leave of Absence Policy for International Students](#)
- [Return from Absence](#)

Voluntary Leave

All Faculty of Arts & Science students in [good academic standing](#) or on [academic probation](#) may take a voluntary leave from studies without formal authorization. No specific documentation or approval is required.

How to Take a Voluntary Leave

To take a voluntary leave from studies, students have the option to: a) choose not to complete registration in a given academic period (e.g., Fall/Winter session, Fall or Winter term), or b) cancel their current registration in a given academic period. For students who have already completed registration, read below for more information on cancelling registration. If you are an international student considering a voluntary leave from your studies, it is strongly recommended that you refer to the [Leave of Absence Policy for International Students](#) for further information.

While on Leave

Generally, while on a voluntary leave, students will not pay any tuition, incidental, or ancillary fees; are not considered for scholarships or awards; cannot normally access University services including health services (with the exception of their College and Faculty Registrar's Office); participate in student internships; or undertake undergraduate research. A student who chooses to take a voluntary leave from their studies is not exempt from academic deadlines, financial responsibilities, current or future policies, and fees schedules. Students who cancel their registration part-way through a term after [tuition refund deadlines](#) are responsible for any outstanding balance owed to the University. Students on leave may contact their College Registrar's Office for advising.

Financial Considerations

Each student's financial aid and award situation is unique. It is recommended that students meet with an advisor in their College Registrar's Office when considering a voluntary leave of absence to discuss financial implications. An advisor can help review the impact on financial aid programs such as OSAP, out of province aid, University of Toronto Advanced Planning for Students (UTAPS), or US Loans; the impact for internal and external award payments; and, how tuition and refunds will apply. Students who plan to cancel their courses and registration part-way through a term should refer to their [divisional refund schedule](#).

Questions

Students who have questions about taking a voluntary leave, withdrawal and/or registration timelines, and/or University resources available to students while on a voluntary leave should make an appointment with an advisor in their College Registrar's Office.

Cancelling Registration

Students who wish to cancel all their current courses in the Fall/Winter Session or in the Summer Session, and who do not intend to enrol in any other courses for the rest of the Session, can cancel their registration on ACORN. If a student is unable to cancel their registration on ACORN, the student can contact their College Registrar's Office.

Cancellation of registration only occurs when all courses are cancelled by the deadline to cancel courses without academic penalty. If any courses remain on a student's record for the academic session, such as a final mark, CR/NCR, P/FL, LWD or WDR, the registration for that Session cannot be cancelled. If a student has a question about a possible refund of their tuition, the student can contact their College Registrar's Office.

When cancelling their registration, students must:

1. pay any outstanding fees;
2. return any books to the Library and pay any outstanding fines; and
3. vacate any laboratory or athletic lockers and return any equipment in their possession.

Students who have not achieved final standing (a final passing mark/P/CR) in at least one course in the Faculty of Arts & Science who cancel their registration must re-apply for admission through the Ontario Universities Application Centre if they wish to return in the future.

Undergraduate Leave of Absence Policy for International Students

An approved leave of absence will be permitted for international undergraduate Faculty of Arts & Science students who have completed at least one academic term (e.g., Fall 2023 or Winter 2024) and whose current academic standing is in good standing or on academic probation. Students may request a leave for the Fall term, the Winter term, or the complete Fall/Winter session, for up to a maximum of two consecutive Fall/Winter sessions. Students should contact the Centre for International Experience to request a leave of absence.

Newly admitted students are not eligible for a leave of absence and should instead, if relevant, request a deferral of admission.

Students may request a leave for the following reasons:

- Serious health, personal or family issues
- Issues related to child birth or child care
- Military service

Students may extend an approved leave of absence for up to a maximum of two consecutive Fall/Winter sessions. An extension beyond two consecutive Fall/Winter sessions will not be approved; students may choose to continue a leave but it will not be considered an approved leave of absence.

Generally, while on approved leave, students do not pay any tuition, incidental, or ancillary fees; are not permitted to enrol in courses or register in the Faculty; are not considered for scholarships or awards; and cannot normally access University services (with the exception of their College Registrar's Office and the Centre for International Experience), participate in student internships, or undertake undergraduate research. A student who has been granted an approved leave of absence under this policy is not exempt from academic deadlines, financial responsibilities, current or future policies, and fees schedules. Students who cancel their registration part-way through a term after tuition refund deadlines are responsible for any outstanding balance owed to the University. Students on leave may contact their College Registrar's Office for advising.

To initiate a return to studies, students should contact their College Registrar's Office at least one month in advance of the term or session in which they plan to resume their studies.

Return from Absence

Students who were previously registered as degree or non-degree students in the Faculty of Arts & Science, who have completed at least one course in the Faculty, and who have not been registered in the Faculty for at least 12 months must submit an application for re-registration through their College Registrar's Office. Students who previously studied as non-degree visiting students do not request re-registration. They must submit a new visiting student application and valid letter of permission through Woodsworth College.

Students who were previously registered in the Faculty but who did not achieve final standing (e.g., a final grade or CR/NCR) in at least one course must re-apply for admission through the Ontario Universities Application Centre.

Students with outstanding accounts may not re-register at the University until these accounts are paid.

The recommended timeframe to submit an application for re-registration is a minimum of two weeks prior to course enrolment for the relevant session. Course enrolment for the Fall/Winter session begins in July; course enrolment for the Summer session begins in March. Although applications for re-registration will continue to be accepted after these dates, please note that if enrolment has already started some courses may no longer have space.

It is recommended that students planning to re-register make an appointment with an advisor in their College Registrar's Office to discuss their academic plans, their degree and program requirements, and any changes in Faculty policies or procedures since their last registration.

Rights and Responsibilities

Student Rights and Responsibilities

As members of the University of Toronto community, students assume certain responsibilities and are guaranteed certain rights and freedoms.

The University has several policies that are approved by the Governing Council and which apply to all students. The University will assume that each student has become familiar with the policies. The rules and regulations of the Faculty of Arts & Science are listed in this calendar. In applying to the Faculty, the student assumes certain responsibilities to the University and the Faculty and, if admitted and registered, will be subject to all rules, regulations and policies cited in the calendar, as amended from time to time.

A directory of the policies, guidelines and resources that relate to your conduct as a student at the University of Toronto can be found on the [Office of the Vice-Provost, Students website](#).

All University policies can be found in the [Governing Council Policies website](#).

Email Address

Students of the University of Toronto have access to the Information Commons, which is their passport to their University of Toronto affiliated email, libraries and Internet access while on campus. Once a student has their TCard, they must activate their University of Toronto email account. Setting up a UTmail+ account is mandatory; see the [University Policy on Official Correspondence with Students](#).

Mailing Address

Address information (mailing and permanent) must be reviewed and updated on ACORN. It is the student's responsibility to ensure that the mailing address is kept up to date on [ACORN](#).

Sanctions on Account of Outstanding Obligations

As per the Governing Council's policy on [Academic Sanctions for Students who have Outstanding University Obligations](#), the following are recognized University obligations:

- tuition fees
- academic and other incidental fees
- residence fees and other residence charges
- library fines
- Bookstore accounts
- loans made by colleges, faculties or the University
- Health Service accounts
- unreturned or damaged instruments, materials and equipment
- orders for the restitution, rectification or the payment of damages, fines, bonds for good behaviour, and requirement of public service work imposed under the authority of the Code of Student Conduct.

The following academic sanctions are imposed on Arts & Science students who have outstanding recognized University obligations:

- Official transcripts of record will not be issued.
- The University will not release the diploma nor provide confirmation of degree status to external enquirers.
- Graduates who have an outstanding balance will be allowed to walk on stage and have their names appear on the convocation program but will not receive their diploma until their account is paid.
- Registration will be refused to a continuing or returning student.

- Official letters (e.g., confirmation of graduation, QECO) will not be issued.
- Education verifications may not be issued.

Payments made by continuing or returning students will first be applied to outstanding University debts and then to current fees.

Scientific Observations

In biological and science programs, there may be occasions when scientific observations are made by students on themselves or on fellow students. These include common diagnostic or immunization procedures. Unless a valid reason exists, students are expected to participate in such exercises. If any investigative work involving student participation does not form part of the program, participation is voluntary.

Academic Record

Students are able to check their course results, grade point averages, and academic standing by accessing their academic record online through ACORN. Final course results will be available for viewing on ACORN as soon as possible after they are received and posted by the Office of the Faculty Registrar. Note that academic status is only assessed at the end of the Fall/Winter session and the end of the Summer session.

Students not in good standing (i.e., on probation, or suspended, or refused further registration) will receive notification by email to their UTMail+ account.

The University's Policy on Access to Student Academic Records can be found on the Governing Council website.

TCard

The TCard is the official University of Toronto student ID card, bearing student information including name, student number, and image. It serves various functions, including library card, meal plan card & access card (if applicable). It is used for identification purposes within the University, such as Faculty examinations, student activities, and Athletic Association privileges.

Detailed Information about the TCard, such as applying for a new card, reporting a loss card, and usage can be found in the TCard Office website.

Transcripts and Course Descriptions

The transcript of a student's record reports their complete registration history at the university including courses in progress and the standing in all courses attempted along with course average, information about the student's academic standing including records of suspension and refusal of further registration, any current academic sanctions if relevant, completion of program(s) at the time of graduation, and conferral of the degree.

The University of Toronto issues consolidated transcripts, including a student's total academic record at the University. However, graduate students who were previously enrolled at the University of Toronto as an undergraduate student may request that only the graduate portion of their record be issued. Students may request their transcript online on ACORN. Further information can be obtained on the University's Transcript Services website. Copies of course descriptions are issued at the student's request.

University Rights and Responsibilities

Changes in Programs of Study and/or Courses

The programs of study and courses that are listed in our Calendar are available for the year(s) to which the Calendar applies. They may not necessarily be available in later years or offered in all years. If the University or the Faculty must change the content of programs of study or courses or withdraw them, all reasonable possible advance notice will be given. The University will not, however, be liable for any loss, damages, or other expenses that such changes might cause.

For each program of study offered by the University through the Faculty, the courses necessary to complete the minimum requirements of the program will be made available annually. The Faculty reserves the right otherwise to change the content of courses, instructors and instructional assignments, enrolment limitations, prerequisites and co-requisites, grading policies, requirements for promotion and timetables without prior notice.

Copyright in Instructional Settings

If a student wishes to tape-record, photograph, video-record or otherwise reproduce lecture presentations, course notes or other similar materials provided by instructors, they must obtain the instructor's written consent beforehand. Otherwise all such reproduction is an infringement of copyright and is absolutely prohibited.

Note that where such permission is granted by the instructor, materials reproduced are for the student's individual private use only, not for further reproduction or publication.

In the case of private use by students with disabilities, the instructor's consent will not be unreasonably withheld.

Enrolment Limitations

The University makes every reasonable effort to plan and control enrolment to ensure that all of our students are qualified to complete the programs to which they are admitted, and to strike a practicable balance between enrolment and available instructional resources. Sometimes such a balance cannot be struck and the number of qualified students exceeds the instructional resources that we can reasonably make available while at the same time maintaining the quality of instruction. In such cases, we must reserve the right to limit enrolment in the programs, courses, or sections listed in the Calendar, and to withdraw courses for which enrolment or resources are insufficient. The University will not be liable for any loss, damages, or other expenses that such limitations or withdrawals might cause.

Fees and Other Charges

The University reserves the right to alter the fees and other charges described in the Calendar by approval of the Governing Council.

Notice of Collection of Personal Information: Freedom of Information and Privacy Act

The University of Toronto respects your privacy.

Personal information that you provide to the University is collected pursuant to section 2(14) of the University of Toronto Act, 1971.

It is collected for the purpose of administering admissions, registration, academic programs, university-related student activities, activities of student societies, safety, financial assistance and awards, graduation and university advancement, and reporting to government. This includes advising notes created to document interactions with students in support of their academic program. These notes may be accessed by authorized departments also involved in advising, to collaboratively support student success. Notes are statements of fact. They may relate to the student's academic record, provide documentation of issues and options discussed, as well as university service referrals.

The University is also required to report student-level enrolment-related data to the Ministry of Training, Colleges and Universities as a condition of its receipt of operating grant funding. The Ministry collects this enrolment data, which includes limited personal information such as Ontario Education Numbers, student characteristics and educational outcomes, in order to administer government postsecondary funding, policies and programs, including planning, evaluation and monitoring activities.

At all times it will be protected in accordance with the Freedom of Information and Protection of Privacy Act. If you have questions, please refer to www.utoronto.ca/privacy or contact the University Freedom of Information and Protection of Privacy Coordinator at McMurrich Building, room 104, 12 Queen's Park Crescent West, Toronto, ON, M5S 1A8.

Person I.D. (Student Number)

Each student at the University is assigned a unique identification number. The number is confidential. The University strictly controls access to Person I.D. numbers. The University assumes and expects that students will protect the confidentiality of their Person I.D.'s.

Academic Bridging Program

Faculty List

Director

T. Socknat, MA, PhD

Associate Professors, Teaching Stream

W. B. MacDonald, BA, MA

T. Moritz, MA, PhD

J. B. Rose, BA, MA

Introduction

The Academic Bridging Program allows individuals, who have been away from formal education for some time and are at least 19 years of age, to pursue degree studies at the University of Toronto. The courses in the program are designed to help ease the transition into first-year university courses in the Faculty of Arts and Science after time away from prior education.

Courses feature study skills, essay writing skills, library research skills and the methodology of the specific academic discipline involved. Students are admitted by Woodsworth College to non-degree studies in the Academic Bridging Program and are enrolled in Woodsworth College courses. Both part-time and full-time options are available to students.

Students who successfully complete the Academic Bridging Program, earning a grade of 63% or above, are admitted to the Faculty of Arts and Science, at the University of Toronto, with at least 1.0 credit towards their degree for those who complete the part-time Academic Bridging Program. Students who complete the full-time program may transfer up to 2.0 credits towards their degree.

Academic Bridging Program Courses

ABP100Y1 - Introduction to Academic Studies

Hours: 72S

Program Learning Objectives

Develop Academic Skills:

- students learn clear, mature and reflective spoken and written communication
- students learn critical analytical reading, thinking and writing
- students learn basic information literacy and good academic work habits and study skills

Understand University Culture:

- students learn appropriate classroom protocol
- students learn to use classroom technology
- students learn to access university resources

Enhance Life Skills:

- students learn to assess their personal and academic strengths and weaknesses, and readiness for university
- students learn to develop an appreciation of lifelong learning in and out of the classroom
- students learn to think and act independently and responsibly

The program is offered in the Fall, Winter and Summer sessions. To find out more about the program please contact the Academic Bridging Program office.

Enquiries:

Millie Rotman Shime Academic Bridging Program
Woodsworth College

119 St. George Street, Room 220

Toronto, Ontario

M5S 1A9

t: 416-978-4444

e: academic.bridging@utoronto.ca

w: [Academic Bridging Program \(https://wdw.utoronto.ca/\)](https://wdw.utoronto.ca/)

This interdisciplinary, skills-focused course parallels the other component courses of the full-time Academic Bridging Program, supplementing those courses and helping students integrate their entire Academic Bridging experience, while providing intensive, workshop-style training in the fundamental skills needed for success in further university studies in the Humanities and Social Sciences. The course will also provide academic advising and planning, to help students understand and navigate university culture. Open only to Academic Bridging Program students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

ABP101Y1 - Introduction to Academic Studies in the Sciences

Hours: 72S

This interdisciplinary, skills-focused course parallels the other component courses of the full-time ABP Science Option, supplementing those courses and helping students integrate their entire Academic Bridging experience, while providing intensive, workshop-style training in the fundamental skills needed for success in further university studies in Mathematics and the Sciences. The course will also provide academic advising and planning, to help students understand and navigate university culture. Open only to Academic Bridging Program students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ABP102Y1 - Diversity and Social Justice in Canada

Previous Course Number: JWU100Y1, WDW102Y1
Hours: 72L

Despite its image as a multicultural nation, non-dominant groups have often experienced discrimination and injustice within Canada. The course examines experiences of injustice in Canada from diverse perspectives, amplifying voices of marginalized communities (e.g., Indigenous and other racialized peoples, LGBTQ2S+) and providing a more nuanced and critical view of diversity in Canada, historically and in the present. The course will also highlight the ways diverse communities have resisted injustices and have worked towards the creation of more just futures in Canada. Open only to Academic Bridging Program students. Not eligible for CR/NCR option.

Exclusion: WDW102Y1

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

ABP103Y1 - Explorations in Literary Imagination: From Conventional to Cutting Edge

Previous Course Number: ENG185Y1, WDW103Y1
Hours: 72L

This course introduces students to the study of literature through an exploration of the conventional to the cutting edge, in terms of literary content, genre, and form. Students will learn to identify and challenge literary conventions and structures while exploring new formats and media. Open only to Academic Bridging Program students. Not eligible for CR/NCR option.

Exclusion: ENG185Y1, WDW103Y1

Breadth Requirements: Creative and Cultural Representations (1)

ABP104Y1 - Environmental Issues Today

Previous Course Number: WDW104Y1
Hours: 72L

This interdisciplinary course introduces the major issues regarding the sustainability of the global environment in the face of human development by integrating humanities and social science with the fundamental concept of environmental science. It examines major environmental problems, such as rapid climate change and land degradation as well as the role and impact of government, economics, and ethics on environmental issues. Open only to Academic Bridging Program students. Not eligible for CR/NCR option.

Exclusion: WDW104Y1

Breadth Requirements: Society and its Institutions (3)

ABP105Y1 - Indigenous Cultures and Societies

Previous Course Number: WDW105Y1
Hours: 72L

This course provides an interdisciplinary focus on key topics relevant to Indigenous communities, historically and in the present. Students will be introduced to diverse cultures, communities, and worldviews of Indigenous peoples of Turtle Island (particularly Canada) and how they have been affected by colonialism. Emphasis will be placed on the ways Indigenous peoples are resisting social, economic, political, and environmental injustices, while revitalizing their identities, knowledges, and communities and creating space for the expression of Indigenous voices.

Storytelling that prioritizes the perspectives and worldviews of Indigenous peoples will guide students' learning about course topics, issues, and concepts. Students will be encouraged to connect their own storied identities and perspectives to course themes and issues. Classes will involve a mix of interactive lectures, class discussion, student-led learning opportunities, and field

trips. Class time and assignments will also be devoted to helping students build their critical thinking, reading, and writing skills towards the completion of a research-based essay due at the end of the year. Open only to Academic Bridging Program students. Not eligible for CR/NCR option.

Exclusion: WDW105Y1

Breadth Requirements: Society and its Institutions (3)

ABP106Y1 - Media, Culture, and Society

Previous Course Number: WDW106Y1

Hours: 72L

This interdisciplinary course provides an introduction to the cultural and social impacts of present-day popular mass media. Themes explored include the economic and political forces that shape the media world, the role of technology, and issues of representation, gender, and social justice. The course examines a wide range of texts, emphasizing popular culture produced in Canada, and students will have the opportunity to draw extensively on their own interactions with popular media. Open only to Academic Bridging Program students. Not eligible for CR/NCR option.

Exclusion: WDW106Y1

Breadth Requirements: Creative and Cultural Representations (1)

ABP107Y1 - Introduction to University Studies in Mathematics

Previous Course Number: WDW107Y1

Hours: 72L

This course focuses on mathematical concepts and skills needed for success in First Year university Math and Science courses. Students will develop quantitative reasoning abilities required to critique arguments and make decisions, and will gain a deep understanding of functions modeling relationships. The course highlights multiple representations of each topic, emphasizing connections, and workshop-style sessions enable students to strengthen the skills they learn. Open only to Academic Bridging Program students. Not eligible for CR/NCR option.

Exclusion: WDW107Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

ABP108Y1 - Introduction to University Studies in Chemistry

Previous Course Number: WDW108Y1

Hours: 72L

This course covers the fundamental knowledge and skills needed for success in First Year university Chemistry and other Sciences such as Biology. Topics include atoms, elements, and compounds; the chemical and physical properties of gases, liquids, and solids; chemical reactions; and the importance of chemistry in understanding the world around us, with attention to how it can address issues in medicine, the environment, and sustainability. Open only to Academic Bridging Program students. Not eligible for CR/NCR option.

Exclusion: WDW108Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

ABP109Y1 - Diverse Histories of Canada

Previous Course Number: WDW101Y1

Hours: 72L

This course explores diverse, under-acknowledged narratives of people, such as Indigenous and racialized peoples, within the territories currently known as Canada to challenge monolithic, linear, and uncritical representations of this country's past and future. Archival materials, maps, place names, art, literature, film, and other texts will be approached from interdisciplinary perspectives to reveal different orientations to historical events, social injustices, and futures of this territory. Open only to Academic Bridging Program students. Not eligible for CR/NCR option.

Exclusion: WDW101Y1

Breadth Requirements: Society and its Institutions (3)

Actuarial Science

Faculty List

Professors Emeriti

D.F. Andrews, MSc, PhD
 A. Feuerverger, BSc, PhD
 D.A.S. Fraser, BA, PhD, FRSC
 I. Guttman, MA, PhD
 P. McDunnough, MSc, PhD
 R. Neal, BSc, PhD
 M.S. Srivastava, MSc, PhD
 A.M. Vukov, MA, ASA

Professor and Chair of the Department

M.J. Evans, MA, PhD

Professor and Associate Chair, Graduate Studies

S. Volgushev, PhD

Associate Professor, Teaching Stream and Associate Chair, Undergraduate Studies - Actuarial Science

V. Zhang, BSc, MSc, FSA, ACIA, Actuarial Science

Associate Professor, Teaching Stream and Associate Chair, Undergraduate Studies - Statistics

N. Taback, BSc, MSc, PhD

University Professor

N.M. Reid, MSc, PhD, FRSC, OC

Professors

A. Badescu, BSc, MSc, PhD
 S. Broverman, BSc, MSc, PhD, ASA
 R. Craiu, BSc, PhD
 S. Jaimungal, BSc, MSc, PhD
 K. Knight, MSc, PhD
 X.S. Lin, MSc, PhD, ASA
 J. Quastel, MS, PhD
 J.S. Rosenthal, MA, PhD
 J. Stafford, MSc, PhD
 L. Sun, BSc, PhD
 B. Virag, PhD (UTSC)
 Z. Zhou, BSc, PhD

Associate Professors

D. Brenner, MSc, PhD
 L.J. Brunner, MA, PhD (UTM)
 M. Franklin, BSc, MSc, PhD
 D. Roy, BSc, MSc, PhD (UTSC)
 L. Strug, BA, BSc, Sc M, PhD
 P. Zwiernik, MSc, PhD

Assistant Professors

M. Alexander, BSc, MA, MSR, PhD
 R. Alexander, BE, PhD
 B. Babic, BA, JD, MS, PhD
 M. Bing, BS, MFE, MSc, PhD
 F. Chevalier, BSc, PhD
 D. Duvenaud, BSc, MSc, PhD
 G. Eadie, BSc, MSc, PhD
 M. Erdogdu, BSc, MSc, PhD
 J. Gronsbell, BA, PhD
 D. Kong, PhD (UTM)
 V. Leos Barajas, BSc, PhD
 C. Maddison, MSc, PhD
 J. Y. Park, BA, PhD
 S. Pesenti, BSc, MSc, PhD
 X. Shi, BSc, MSc, PhD
 J. Speagle, BA, MA, PhD
 Q. Sun, PhD
 E. Tuzhilina, MSc, PhD
 L. Wang, BSc, PhD
 L. Wong, BSc, MSc, PhD
 Y. Zhang, BSc, PhD

Associate Professors, Teaching Stream

A. Gibbs, B. Math, BEd, MSc, PhD, Statistics
 B. White, BSc, M Math, PhD, Statistics - Biostatistics

Assistant Professors, Teaching Stream

S. Caetano, BSc, MSc, PhD
 K. Daignault, BSc, MSc
 K. Huynh Wong, BSc, MSc
 M. Moon, BSc, MSc
 N. Moon, BSc, MA, PhD
 S. Schwartz, BA, BS, MSc, PhD

Introduction

Actuarial Science is based upon the application of mathematical techniques to reduce the impact of such hazards as loss of income through death, disability, or retirement, or loss of property through fire, accident, or theft. Actuaries are the chief architects of life, health, and property insurance plans, and pension plans, and bear the major responsibility for their financial soundness. By using concepts from the areas of probability and finance, actuaries model, forecast and value the costs of benefits that will be provided to the participants in such plans. Methods developed for modeling insurance risk can also be applied to modeling investment risk, and actuaries apply their expertise to the valuation of sophisticated investment vehicles such as options on equities, bonds and other investment derivatives. [ACT230H1](#) and [ACT240H1](#), though somewhat technical, are courses of interest to a wide audience, since almost every student will from time to time be either a saver or a borrower, and will be covered by insurance and pension plans. Other actuarial courses deal with more specialized topics, and are generally taken by students with a more serious interest in the field or who want to pursue a career as an

actuary. University of Toronto's Actuarial Science programs are fully accredited by the Canadian Institute of Actuaries and most professional requirements at the Associate level (ACIA) can be satisfied through courses in the actuarial programs. We are also designated as Society of Actuaries' Center for Actuarial Excellence (CAE).

Enquiries: 9th Floor, Ontario Power Building, 700 University Avenue, Toronto, ON M5G 1Z5 (416-978-3452)

Associate Chair, Undergraduate Studies: Statistics - Professor N. Taback; e-mail: ugchair.statistics@utoronto.ca

Associate Chair, Undergraduate Studies: Actuarial Science - Professor V. Zhang; e-mail: ugchair.actsci@utoronto.ca

Actuarial Science Programs

Actuarial Science Specialist (Science Program) - ASSPE0608

This program is designed to prepare a student for professional work as an actuary, and more generally in the financial risk management industry.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- MAT137Y1 (63%)/ MAT157Y1 (60%)
- ACT240H1 (70%), ACT245H1 (70%) and ACT247H1 (70%)

Completion Requirements:

(13.0 credits)

First Year:

1. MAT137Y1 (63%)/ MAT157Y1 (60%)
2. MAT223H1/ MAT240H1 (should be taken in first year, enforced as a prerequisite for MAT237Y1)
3. ECO101H1, ECO102H1
4. STA130H1

Note: STA130H1 is restricted to first-year students. If you are unable to complete STA130H1 in first year, see notes below for accepted substitutions for this requirement.

To be completed before the end of Second Year:

1. CSC108H1/ CSC120H1/ CSC148H1. A student who has completed CSC110Y1 also fulfills this program requirement.

Second Year:

1. ACT240H1 (70%), ACT245H1 (70%), ACT247H1 (70%)
2. MAT237Y1/ MAT257Y1
3. (STA257H1, STA261H1)/ (STA237H1, STA238H1); while either pair of courses is accepted, we strongly recommend (STA257H1, STA261H1)
4. MGT201H1

Higher Years:

1. A set of mandatory courses (3.5 credits): ACT348H1, ACT349H1, ACT350H1, ACT370H1, ACT451H1, ACT452H1, STA302H1
2. 2.0 credits to be selected from lists 1 and 2 (students can only use at a maximum 1.0 credit from list (2), the practice oriented courses, to fulfill program requirements):
(1) ACT371H1, ACT455H1, ACT460H1, ACT466H1, STA314H1, STA457H1, STA414H1, and
(2) ACT372H1, ACT470H1, ACT471H1, ACT473H1, ACT475H1.
3. Professional Experience Course ACT390H1: students are strongly recommended to complete this course in the Fall semester of the third year.
4. Actuarial Professional Internship ACT391H1: a full-time work term in an actuarial field (420-hour long at a minimum, and may be longer due to professional or academic needs).

NOTES:

- If you are unable to complete STA130H1 in your first year of study, this requirement must be fulfilled with one of the following 0.5 credits to fulfill your 13.0-credit program requirements: ACT455H1, ACT460H1, ACT466H1, STA314H1, STA457H1, STA414H1. The course taken in lieu of STA130H1 cannot be one that is being used to satisfy Requirement 2 in the completion requirements for Higher Years.
- In order to enrol in ANY 300- or 400-level ACT course, the minimum grade of 63% must be obtained in each of ACT240H1, ACT245H1 and ACT247H1. The enrolment requirements and the prerequisites for all ACT courses will be strictly enforced.

- Students who have an interest in pursuing studies in mathematical finance should consider taking MAT244H1, MAT336H1/ MAT337H1 and APM346H1. Students in the Actuarial Science Specialist Program who have successfully completed ACT348H1 and ACT349H1 may request to enroll in the following RSM courses (provided the appropriate prerequisites and corequisites are met): RSM430H1, RSM433H1, RSM437H1. MAT246H1 is recommended (not required) for students in the Actuarial Science Specialist Program.
- Wherever possible, the expectation is that the student will be paid based on industry standards for the duration of the work term.

Actuarial Science Major (Science Program) - ASMAJ0608

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- MAT137Y1 (63%)/ MAT157Y1 (60%)

Completion Requirements:

(8.5 credits)

First Year:

- MAT137Y1 (63%)/ MAT157Y1 (60%)
- MAT223H1/ MAT240H1 (should be taken in first year, enforced as a prerequisite for MAT237Y1)
- STA130H1

Note: STA130H1 is restricted to first-year students. If you are unable to complete STA130H1 in first year, see note below for accepted substitutions for this requirement.

To be completed before the end of Second Year:

- CSC108H1/ CSC120H1/ CSC148H1. A student who has completed CSC110Y1 also fulfills this program requirement.

Higher Years:

- ACT240H1, ACT245H1, ACT247H1, ACT348H1, ACT370H1

- MAT237Y1/ MAT257Y1

7. (STA257H1, STA261H1)/ (STA237H1, STA238H1); while either pair of courses is accepted, we strongly recommend (STA257H1, STA261H1)

- ACT451H1, ACT452H1, STA302H1

STA314H1 is strongly recommended.

NOTES:

- If you are unable to complete STA130H1 in your first year of study, this requirement must be fulfilled with one of the following 0.5 credits to fulfill your 8.5-credit program requirements: STA314H1, ACT350H1, ACT455H1, ACT460H1, ACT466H1, STA457H1, STA414H1.
- In order to enrol in ANY 300- or 400-level ACT course, the minimum grade of 63% must be obtained in each of ACT240H1, ACT245H1 and ACT247H1. The enrolment requirements and the prerequisites for all ACT courses will be strictly enforced.
- Students who have an interest in pursuing studies in mathematical finance should consider taking MAT244H1, MAT336H1/ MAT337H1 and APM346H1.
- ACT390H1 is a required course in the actuarial science specialist program. The course is not required in the actuarial major program but a limited number of spots are available for actuarial major students by invitation, after a short application process. International students in the actuarial major program are not eligible for work permits for internships.
- Students interested in actuarial practices should consider taking ACT371H1, ACT372H1, ACT470H1, ACT471H1, ACT473H1, ACT475H1.
- The University of Toronto requires that any student who is using a combination of programs to graduate (e.g. two majors, a major and two minors) must complete a total of at least 12.0 distinct credits that are used to satisfy program requirements. It is possible that a student with a combination of actuarial science major and statistics major may not comply with this 12.0 credit rule (depending on how students select their courses within the statistics major) and may need to take additional courses to satisfy this rule. If you have concerns or questions regarding this rule, please consult with the department.
- Students are highly encouraged to take ECO101H1 and ECO102H1 to obtain SOA VEE (Validation by Educational Experience) credit for Economics, and MGT201H1 and ACT349H1 to obtain VEE credit for Accounting and Finance."

Actuarial Science Courses

ACT199H1 - Decipher Financial Puzzles in the Media and Pop Culture

Hours: 24L

Have you ever watched a pundit's passionate rant over financial crisis on TV and wondered whether he was right or wrong? Did you get the full story after watching movies like *Margin Call* or *The Big Short*? What was the efficiency market versus behavioral finance debate all about? Did you wonder why everyone in the financial press seem to be calling for a lower debt/equity ratio on banks in the post-crisis era? If you find yourself think about those questions, this is the course for you. We will start from some basic building blocks of finance, such as time value of money and discounting, and proceed to look at some of the important financial controversies you have read or heard in the pop culture or media. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT230H1 - Mathematics of Finance for Non-Actuaries

Hours: 24L/12T

Introduction to financial mathematics, interest measurement, present value calculation, annuity valuation, loan amortization, consumer financing arrangements, bond valuation. The course is aimed at a general audience who will not be continuing in the actuarial science program. Course manuals fee: \$30.

Prerequisite: First-year Calculus

Exclusion: ACT240H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT240H1 - Mathematics of Investment & Credit

Hours: 24L/12T

Interest, discount and present values, as applied to determine prices and values of annuities, mortgages, bonds, equities; loan repayment schedules and consumer finance payments in general; yield rates on investments given the costs on investments. Course manuals fee: \$45.

Prerequisite: MAT137Y1 (minimum grade 63%)/
MAT157Y1 (minimum grade 60%)

Exclusion: ACT230H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT245H1 - Financial Principles for Actuarial Science I

Hours: 24L/12T

Term structure of interest rates, cashflow duration, convexity and immunization, forward and futures contracts, interest rate swaps, introduction to investment derivatives and hedging strategies.

Prerequisite: ACT240H1, MAT137Y1 (minimum grade 63%)/MAT157Y1 (minimum grade 60%)

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT247H1 - Introductory Life Contingencies

Hours: 36L

Probability theory applied to survival and to costs and risks of life assurances, life annuities, and pensions; analysis of survival distributions; international actuarial notation. Course manuals fee: \$35.

Prerequisite: ACT240H1; MAT137Y1 (minimum grade 63%)/MAT157Y1 (minimum grade 60%); STA257H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT348H1 - Life Contingencies II

Hours: 36L

Determination of benefit premium and benefit reserves for life insurance and annuities; analysis of insurance loss random variables; theory of life contingencies for multiple lives. This is the second course in the life contingencies series, following ACT247H1.

Course manuals fee: \$40.

Prerequisite: ACT240H1 (minimum 63%), ACT245H1 (minimum 63%), ACT247H1 (minimum 63%)

Corequisite: STA257H1/ STA237H1, MAT237Y1/
MAT257Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT349H1 - Corporate Finance for Actuarial Science

Hours: 24L/12T

Corporate finance for actuarial science students.

Prerequisite: ACT240H1 (minimum 63%), ACT245H1 (minimum 63%), ACT247H1 (minimum 63%)

Corequisite: STA257H1/ STA237H1, MAT237Y1/ MAT257Y1

Exclusion: ECO358H1, ECO359H1, RSM332H1, RSM333H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT350H1 - Applied Probability for Actuarial Science

Hours: 24L/12T

The course offers an introduction to elementary probability theory and stochastic processes. The main goal of the course is to help actuarial students understand the concept of stochastic processes with particular emphasis on Markov chains that are of great importance in Life Contingencies and Property and Casualty insurance.

The course will cover the following topics: a basic review of probabilities with emphasis on conditional probabilities and expectations, discrete time Markov chains, Poisson processes, continuous time Markov chains, renewal theory and some applications, queueing theory.

Prerequisite: ACT240H1 (minimum 63%), ACT245H1 (minimum 63%), ACT247H1 (minimum 63%), STA257H1/ STA237H1

Corequisite: MAT223H1/ MAT240H1, MAT237Y1/ MAT257Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT370H1 - Financial Principles for Actuarial Science II

Hours: 36L

Mathematical theory of financial derivatives, discrete and continuous option pricing models, hedging strategies and exotic option valuation.

Prerequisite: ACT240H1 (minimum 63%), ACT245H1 (minimum 63%), ACT247H1 (minimum 63%)

Corequisite: STA261H1/ STA238H1, MAT237Y1/

MAT257Y1

Exclusion: RSM435H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT371H1 - Basic Reserving Methods For P&C Insurance

Hours: 24L/12T

Topics covered include reserving data and triangles, diagnoses methods that range from triangle of ratios of paid claims to reported claims to triangle of reported claim ratios. The syllabus also includes projection techniques. Not eligible for CR/NCR option.

Prerequisite: ACT240H1, STA257H1/ STA237H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT372H1 - Basic Ratemaking Methods For P&C Insurance

Hours: 24L/12T

This course covers the basic ratemaking methods for P&C insurance. It assumes that students are familiar with traditional reserving diagnoses and projection methods. The syllabus would introduce concepts related to earning of exposures, on-level factors, catastrophe loading, large loss loading and credibility. Not eligible for CR/NCR option.

Prerequisite: ACT371H1

ACT390H1 - Professional Experience in Actuarial Science

Hours: 24S

This course is preparation for an internship work term. It includes various professional skill workshops, networking activities and an invited speaker series. The course is mandatory for students in the Actuarial Science Specialist program. A limited number of spots in the course are open for students in the Actuarial Science Major program. Students in the major program must apply to the department for permission to take the course. This is a CR/NCR course.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however a \$638 ancillary fee will be assessed towards Professional Experience preparatory program costs.

Prerequisite: Enrolment in the Actuarial Science Specialist program or by approval of the Department of Statistical Sciences.

ACT391H1 - Professional Internship

Internship course for students enrolled in the Actuarial Science Specialist, fulfilled as a 420-hour work term at a minimum (maybe longer based on professional and academic needs) in a workplace related to actuarial science in third or fourth year. ACT390H1 must be completed first in preparation. Contact Department for more information.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however an ancillary fee of \$806 will be assessed towards Professional Experience placement.

Prerequisite: ACT390H1

ACT398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT451H1 - Loss Models

Hours: 36L

Loss models policy adjustments, frequency and severity models, compound distributions.

Prerequisite: STA257H1/ STA237H1, ACT240H1 (minimum 63%), ACT245H1 (minimum 63%), ACT247H1 (minimum 63%)

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT452H1 - Loss Models II

Hours: 36L

Estimation of Loss and Survival Models using complete, censored and truncated data. Product-Limit estimation, empirical estimation, moment and percentile estimation, maximum likelihood estimation and simulation models.

Prerequisite: ACT240H1 (minimum 63%), ACT245H1 (minimum 63%), ACT247H1 (minimum 63%), STA261H1/ STA238H1, ACT451H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT455H1 - Advanced Life Contingencies

Hours: 36L

Advanced life contingencies, multiple decrement theory, insurance policy expenses, multi-state transition models, Poisson processes. This course is the last in the three-course series for life contingencies, following ACT247H1 and ACT348H1.

Prerequisite: ACT240H1 (minimum 63%), ACT245H1 (minimum 63%), ACT247H1 (minimum 63%), ACT348H1, ACT350H1/ STA347H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT460H1 - Stochastic Methods for Actuarial Science and Finance

Hours: 36L

Applications of the lognormal distribution, Brownian motion, geometric Brownian motion, martingales, Ito's lemma, stochastic differential equations, interest rate models, the Black-Scholes model, volatility, value at risk, conditional tail expectation. Topics in advanced financial mathematics.

Prerequisite: ACT240H1 (minimum 63%), ACT245H1 (minimum 63%), ACT247H1 (minimum 63%), ACT350H1/ STA347H1

Recommended Preparation: ACT370H1 strongly recommended

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT466H1 - Credibility and Simulation

Hours: 36L

Limited fluctuation credibility, Bayesian estimation, Buhlmann credibility, non-parametric credibility methods, inverse transformation simulation method, specialized simulation methods for the normal and lognormal distributions, Monte Carlo methods, the bootstrap method.

Prerequisite: ACT240H1 (minimum 63%), ACT245H1 (minimum 63%), ACT247H1 (minimum 63%), STA261H1/STA238H1, ACT451H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT470H1 - Advanced Pension Mathematics

Hours: 36L

Topics in pension mathematics; funding methods for pension plans. (Offered in alternate years)

Prerequisite: ACT348H1 or permission of instructor
Corequisite: ACT455H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT471H1 - Topics in Casualty Actuarial Science

Hours: 36L

This course will cover current topics relevant to industry participants. Topics may include advanced modeling, pricing for different lines of business, financial conditions, regulatory impacts and current developments. Students will develop an understanding of key topics driving the industry today and some of the framework of reference used by actuarial practitioners for charting a course in areas of uncertainties.

(Offered in alternate years)

Not eligible for CR/NCR option.

Prerequisite: ACT371H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT473H1 - Issues In Actuarial Practice

Hours: 24L/24T

Case study approach to current issues in life insurance, pension consulting and casualty actuarial practice. The focus of the course will be on communication and presentation. This course is Pass/Fail. Not eligible for Credit/No Credit. The course is open to students in the specialist program in actuarial science. Students in the major program in actuarial science can enrol into the course with permission of the department.

Prerequisite: ACT348H1, ACT349H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT475H1 - Insurance Products and Regulation with AXIS

Hours: 36L

Case studies using leading actuarial application AXIS. Examine key types of insurance products and their pricing and valuation. Review representative developments in insurance regulations in US, Europe and Canada. Other topics include a brief introduction of the use of AI in life insurance.

Prerequisite: ACT240H1, ACT245H1, ACT247H1

Corequisite: ACT348H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT496H1 - Readings in Actuarial Science

Independent study under the direction of a faculty member. Persons wishing to take this course must have the permission of the Undergraduate Secretary and of the prospective supervisor. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT497H1 - Readings in Actuarial Science

Independent study under the direction of a faculty member. Persons wishing to take this course must have the permission of the Undergraduate Secretary and of the prospective supervisor. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT498Y1 - Readings in Actuarial Science

Independent study under the direction of a faculty member. Persons wishing to take this course must have the permission of the Undergraduate Secretary and of the prospective supervisor. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ACT499Y1 - Readings in Actuarial Science

Independent study under the direction of a faculty member. Persons wishing to take this course must have the permission of the Undergraduate Secretary and of the prospective supervisor. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

African Studies

Faculty List

Associate Professors

D.L. Eyoh, MA, PhD (African Studies/Political Science)

M. Lo, Licence, MA, MSc, PhD (African Studies/Women and Gender Studies)

Assistant Professors

S. Aidid, Hon BA, MA, PhD (African Studies/History)

C. Azubuko-Udah, BA, MA, C Phil, PhD (African Studies/English)

N. Elamin, PhD (African Studies/Anthropology)

E. Kirigia, BA, MSc, PhD (African Studies/School of the Environment)

Associate Professors, Teaching Stream

A. Wasike, BA, MA, MEd, PhD (African Studies)

Assistant Professors, Teaching Stream (Part-Time)

M. Levin, BA, MSc, PhD (African Studies)

development, aid, humanitarianism, NGOs, conflict and peacemaking, activism and political struggles, politics, African cultures, ecocriticism, environmental justice, climate change and sustainability, climate justice, food security, African feminisms, migration and displacement, gender and development, African environmentalism, land acquisition and struggles, health, black freedom, human rights, urbanization, African systems of thought, the slave trade, colonialism, the post-colonial state, Africa and its diaspora, Pan-Africanism, and globalization. Innovative pedagogies nurturing students' intellectual curiosity, cultivating engaged, creative and critical thinking and teaching cutting edge courses that recognize Africa as a living place rather than merely as a site for intellectual speculation and study inform our teaching. The African Studies Centre also offers practical courses in African languages. These areas of emphasis are supported by a rich menu of African Studies courses that form the spin of the curriculum. Additional cross-listed courses with cognate disciplines and other interdisciplinary programs, drawn from disciplines in humanities, social sciences, and sciences, complement our offerings.

Contact:

Consult Director, Professor Marieme Lo, 416-946-3218 or marieme.lo@utoronto.ca.

For general enquiries, call 416-978-5404 or email undergraduatecoordinator.afr@utoronto.ca.

Introduction

How has the evolution of societies on the African continent been integral to universal human history? What factors, in the past and in our time, account for similarities and differences among Africa societies? How are patterns and challenges of development in African societies shaped by their location within the global political economy? How do representations of Africa in popular media influence our knowledge of African societies? What are the ethical dilemmas of the various ways in which we engage with African societies?

African Studies provides students unique opportunities to study the complexity and dynamism of African societies, the dynamics processes of socio-economic, cultural, environmental, and political transformations in Africa, the varied histories, ideas and institutions of Africa and its diasporas through interdisciplinary and transdisciplinary lenses. It fosters a vibrant intellectual, social and cultural hub of academic excellence with a shared ethos and commitment to public scholarship, social justice, global citizenship, engaged scholarship and a praxis of inclusivity, epistemic diversity, and reflexive community engagement.

The interdisciplinary courses, through innovative and critical pedagogies, deal with cutting edge subjects such as political economy, African inventions, nationalism,

African Studies Programs

African Studies Specialist (Arts Program) - ASSPE1707

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Consult Program Administrator:
nc.undergradadmin@utoronto.ca or 416-978-5404.

(11.0 credits, including at least 4.0 credits at the 300+ level, with at least 1.0 credit at the 400-level)

First Year:

1. [AFR150Y1](#)

Higher Years:

2. [JQR360H1](#)

3. [AFR450Y1](#)

4. 2.5 credits from Group A.

5. 2.0 credits from Group B.

6. 2.0 credits from Groups A or B

7. 2.0 credits in language courses from Group C (a *progression in one language*) or 2.0 credits in any major African language approved by the Program Committee.

Group A:

AFR250Y1, AFR270H1, AFR290H1, AFR298H1,
AFR322H1, AFR351Y1, AFR352H1, AFR353H1,
AFR354H1, AFR355H1, AFR357H1, AFR358H1,
AFR359H1, AFR365H1, AFR453Y1, AFR370H1,
AFR381H1, AFR389H1, AFR450Y1, AFR451H1,
AFR454H1, AFR455H1, AFR459H1, AFR499H1,
ANT463H1, ENG367H1, HIS295Y1, HIS319H1,
HIS322H1, HIS342H1, HIS352H1, HIS383Y1, HIS394H1,
HIS450H1, HIS481H1, HIS483H1, HIS486H1, JNH350H1,
JQR360H1, POL301H1, POL309H1, PRT100Y1,
PRT220Y1, an independent studies course approved by
the Program Committee

Group B:

ANT204H1, ANT348H1, ANT374H1, ARC233H1,
CAR220H1, CAR226H1, CAR315H1, CIN332Y1,
CIN372Y1, CSE444H1, DRM462H1, DTS200Y1,
DTS401H1, DTS402H1, ECO231H1, ECO232H1,
ECO324H1, ENG270H1, ENG356Y1, ENG370Y1,
ENT200H1, ENV221H1, ENV333H1, FRE334H1,
FRE336H1, GGR112H1, HIS106Y1, HIS221H1,
HIS222H1, HIS230H1, HIS359H1, HIS391Y1, HIS392Y1,
HIS446H1, HIS487H1, HMB202H1, HMB203H1,
HMB303H1, HMB323H1, HMB433H1, HMB443H1,
JPR374H1, MGT230H1, MGT250H1, MGT201H1,
NFS490H1, NMC343H1, NMC344H1, NMC362Y1,
NMC374H1, NMC376H1, NMC377Y1, NMC378H1,
NMC379H1, NMC381H1, PHL336H1, PHL380H1,
POL201H1, POL223H1, POL486H1, POL417H1,
POL418H1, POL445H1, POL447H1, POL479H1,
POL488H1, POL489H1, RLG203H1, RLG204H1,
RLG241H1, RLG312H1, RLG351H1, RLG355H1,
SDS246H1, SDS355H1, SOC210H1, WGS273H1,
WGS369H1, WGS385H1, WGS386H1, WGS426H1,
WGS440H1, WGS463H1

Group C:

Swahili: AFR280Y1, AFR380Y1
Arabic: NML110Y1, NML210Y1
French: FSL221Y1/ (FSL220H1, FSL222H1), FSL321Y1/
(FSL320H1, FSL322H1)/ (FSL421Y1/ FSL420H1)
Portuguese: PRT100Y1/ (PRT101H1, PRT102H1),
PRT220Y1/ (PRT201H1, PRT202H1)
OR 2.0 credits in any major African language approved by
the Program Committee

Notes:

- 4.0 credits must be 300/400-level (including at least 1.0 credit at the 400-level) of which at least 1.0 credit must be from Group A and another from Group B

African Studies Major (Arts Program) - ASMAJ1707

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Consult Program Administrator:
nc.undergradadmin@utoronto.ca or 416-978-5404.

(6.0 credits, including 2.0 credits at the 300+ level)

First Year:

- AFR150Y1

Higher Years:

- JQR360H1
- AFR450Y1
- 2.0 credits from Group A.
- 1.5 credits from Group B, or AFR280Y1 or AFR380Y1

Group A:

AFR250Y1, AFR270H1, AFR290H1, AFR298H1,
AFR322H1, AFR351Y1, AFR352H1, AFR353H1,
AFR354H1, AFR355H1, AFR357H1, AFR358H1,
AFR359H1, AFR365H1, AFR370H1, AFR381H1,
AFR389H1, AFR450Y1, AFR451H1, AFR453Y1,
AFR454H1, AFR455H1, AFR459H1, AFR499H1,
ENG367H1, FCS392H1, HIS295Y1, HIS319H1,
HIS322H1, HIS297Y1, HIS342H1, HIS383Y1, HIS394H1,
HIS450H1, HIS481H1, HIS483H1, HIS486H1, JNH350H1,
JQR360H1, POL301H1, POL309H1, POL488H1,
POL489H1, an independent studies course approved by
the Program Committee

Group B:

ANT204H1, ANT345H1, ANT348H1, ANT364H1,
ANT374H1, ARC233H1, CAR220H1, CAR221H1,
CAR225H1, CAR226H1, CAR321H1, CAR324H1,
CAR325H1, CIN332Y1, CIN372Y1, CSE444H1,
DRM462H1, DTS200Y1, DTS401H1, DTS402H1,
ECO231H1, ECO232H1, ECO324H1, ENG270H1,
ENG356Y1, ENG370Y1, ENT200H1, ENV221H1,
ENV333H1, FOR201H1, FRE332H1, FRE334H1,
FRE336H1, GGR112H1, GGR338H1, GGR419H1,
HAI453H1, HIS106Y1, HIS221H1, HIS222H1, HIS230H1,
HIS231H1, HIS293H1, HIS359H1, HIS360H1, HIS391Y1,
HIS392Y1, HIS413H1, HIS446H1, HIS474H1, HIS487H1,
HMB202H1, HMB203H1, HMB303H1, HMB323H1,
HMB433H1, HMB443H1, JPR374H1, MGT230H1,
MGT250H1, MGT201H1, NFS490H1, NMC343H1,
NMC344H1, NMC362Y1, NMC374H1, NMC376H1,
NMC377Y1, NMC378H1, NMC379H1, NMC381H1,
PHL336H1, PHL380H1, POL201H1, POL223H1,
POL486H1, POL417H1, POL418H1, POL445H1,
POL447H1, POL479H1, RLG203H1, RLG204H1,

RLG241H1, RLG312H1, RLG351H1, RLG355H1, SDS246H1, SDS355H1, SOC210H1, WGS273H1, WGS369H1, WGS385H1, WGS386H1, WGS426H1, WGS440H1, WGS463H1

Notes:

- At least 2.0 credits from Groups A and/or B must be at the 300/400 level
- Effective Fall 2021, courses associated with New College's African Studies and Caribbean Studies programs will have the new "AFR" and "CAR" designators respectively.

African Studies Minor (Arts Program) - ASMIN1707

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Consult Program Administrator:
nc.undergradadmin@utoronto.ca or 416-978-5404.

(4.0 credits, including 1.0 credit at the 300+level)

First Year:

1. AFR150Y1

Higher Years:

2. 1.0 credit from Group A
3. 1.0 credit from Group A or B
4. 1.0 credit from Group B or AFR280Y1, or AFR380Y1

Group A:

AFR250Y1, AFR270H1, AFR290H1, AFR298H1, AFR322H1, AFR351Y1, AFR352H1, AFR353H1, AFR354H1, AFR355H1, AFR357H1, AFR358H1, AFR359H1, AFR365H1, AFR370H1, AFR381H1,

African Studies Courses

AFR150Y1 - Africa: A Critical Introduction

Previous Course Number: NEW150Y1

Hours: 48L/24T

A multi-disciplinary study of Africa, emphasizing critical inquiry and analysis of Africa, the cradle of humanity and the most diverse and second largest continent in the world. Topics that will be explored include: pre-colonial, colonial and contemporary African history, cultures,

AFR389H1, AFR450Y1, AFR451H1, AFR453Y1, AFR454H1, AFR455H1, AFR459H1, AFR499H1, ENG367H1, FCS392H1, HIS295Y1, HIS297Y1, HIS319H1, HIS322H1, HIS342H1, HIS383Y1, HIS394H1, HIS450H1, HIS481H1, HIS483H1, HIS486H1, JNH350H1, JQR360H1, POL301H1, POL309H1, POL488H1, POL489H1, an independent studies course approved by the Program Committee

Group B:

ANT204H1, ANT345H1, ANT348H1, ANT364H1, ANT374H1, ARC233H1, CAR220H1, CAR221H1, CAR225H1, CAR226H1, CAR321H1, CAR324H1, CAR325H1, CIN332Y1, CIN372Y1, CSE444H1, DRM462H1, DTS200Y1, DTS401H1, DTS402H1, ECO231H1, ECO232H1, ECO324H1, ENG270H1, ENG356Y1, ENG370Y1, ENT200H1, ENV221H1, ENV333H1, FOR201H1, FRE332H1, FRE334H1, FRE336H1, GGR112H1, GGR338H1, GGR419H1, HAJ453H1, HIS106Y1, HIS221H1, HIS222H1, HIS230H1, HIS231H1, HIS293H1, HIS359H1, HIS360H1, HIS391Y1, HIS392Y1, HIS413H1, HIS446H1, HIS474H1, HIS487H1, HMB202H1, HMB203H1, HMB303H1, HMB323H1, HMB433H1, HMB443H1, JPR374H1, MGT230H1, MGT250H1, MGT201H1, NFS490H1, NMC343H1, NMC344H1, NMC362Y1, NMC374H1, NMC376H1, NMC377Y1, NMC378H1, NMC379H1, NMC381H1, PHL336H1, PHL380H1, POL201H1, POL223H1, POL486H1, POL417H1, POL418H1, POL445H1, POL447H1, POL479H1, RLG203H1, RLG204H1, RLG241H1, RLG312H1, RLG351H1, RLG355H1, SDS246H1, SDS355H1, SOC210H1, WGS273H1, WGS369H1, WGS385H1, WGS386H1, WGS426H1, WGS440H1, WGS463H1

Notes:

- At least 1.0 credit must be a 300/400 series course from Groups A and/or B
- Effective Fall 2021, courses associated with New College's African Studies and Caribbean Studies programs will have the new "AFR" and "CAR" designators respectively.

economies, geographies, Africa's place in the world, politics, religions, spirituality, art, literature, music, race, resistance, gender, sexuality, futurism, environment, Afrofuturism, anticolonial worldmaking, and Pan-Africanism. The course provides a unique opportunity to learn from the African Studies faculty representing diverse geographical and disciplinary backgrounds who will share their cutting-edge research and unique experiences, reading and writing practices.

Exclusion: NEW150Y1, AFSA01H3

Breadth Requirements: Society and its Institutions (3), Creative and Cultural Representations (1)

AFR199H1 - Africa in Toronto

Hours: 24L

Africa in Toronto offers students the unique opportunity to trace, map and document sites and encounters with “Africa” in Toronto across diverse social, political, economic, linguistic and cultural communities in the GTA.

What are the diasporic lives of diverse African communities in the GTA? How does Toronto become home for them? Students will get the chance to learn about, reflect on and reimagine global Africa in the GTA by exploring topics such as placemaking, community-building, the politics of belonging, organizing and activism, economic hubs, artistic creation and expressive cultures, foodways and the epic battle over jollof rice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)
Course Experience: University-Based Experience

AFR250Y1 - Africa in the 21st Century: Challenges and Opportunities

Previous Course Number: NEW250Y1
Hours: 48L

A critical examination of Africa as a living space rather than merely a site of intellectual speculation and study. Uses scholarly and popular literature to explore the issues that engage the attention of ordinary Africans, ranging from the dramatic to the seemingly trivial, as they struggle to fashion meaningful lives in fast-changing societies. Topics include urban transition and city life; economic, political and cultural impacts of globalization; new religious movements and changing conceptions of selfhood; new African diasporas in the West; dynamics of gender relations, kinships and identities; and the politics of liberalization. Materials studied will include print and electronic news media and other mass media resources from Africa and across the world.

Exclusion: NEW250Y1
Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

AFR251H1 - Language, Freedom and Linguistic Human Rights in Africa

Hours: 24L

Examines the language situation in Africa and the extent to which freedom and linguistic human rights are enabled, granted, nurtured, achieved or protected by post-colonial

African states. Using linguistic diversity in Africa as a backdrop, presents, discusses and assesses language policies that were adopted by post-colonial African states, particularly in education, and the implications that these policies have for the rights, freedom and empowerment of citizens of African states. Changes and evolving trends in language use and language planning are also discussed.

Recommended Preparation: AFR150Y1/ AFR250Y1/ AFR290H1
Breadth Requirements: Creative and Cultural Representations (1)

AFR270H1 - African Literature and the Politics of Storytelling

Hours: 24L

Focuses on the art and politics of storytelling across the continent. Students will engage with various kinds of narrative genres from great African novels to short stories, folktales, popular African films from Nollywood and other industries, as well as more recent forms of storytelling from social media. Topics of discussion will include globalization, colonialism, post-coloniality, neo-imperialism, environmental justice, ecocriticism, artistic expression and African identities. This novel course offers a combination of a wide range of literary and non-literary narrative genres as well as a variety of theoretical and methodological approaches to textual analysis from decolonial theories to ecocriticism, postcolonial environmentalisms, narrative theory, as well as more traditional methods of literary criticism and analysis.

Recommended Preparation: AFR150Y1
Breadth Requirements: Creative and Cultural Representations (1)

AFR280Y1 - Introductory Swahili

Previous Course Number: NEW280Y1
Hours: 24L/72T

Introduction to grammar and basic vocabulary of Swahili. Emphasis on comprehension and oral practice. Reading of selected texts. Relation of the language to its East African cultural context.

Exclusion: NEW280Y1
Breadth Requirements: Creative and Cultural Representations (1)

AFR290H1 - The Idea of Africa

Hours: 24L/12T

An historical examination of Africa as a conceptual category, exploring discourses and representations - both African and non-African - that have produced our understandings of the meanings of Africa and Africanness.

Recommended Preparation: AFR150Y1

Breadth Requirements: Society and its Institutions (3)

AFR298H1 - Popular Uprisings in Africa

Hours: 24L

In recent years, popular uprisings have mobilized thousands in over 40 African countries, to demand a radical overhauling of existing economic and political systems. This course asks: What are the catalysts, underlying causes and demands of these protest movements? What can we learn from the grassroots organizing that allowed these movements to gain momentum? How might scholars and activists analyzing the popular uprisings in their countries, allow us to develop new vocabularies and frameworks for understanding popular protests and theories of revolution? Case Studies will include popular uprisings in Sudan, Burkina Faso, Algeria, Senegal, Cameroon, Djibouti, DRC, Eswatini and Nigeria and reflect on similar movements around the world.

Recommended Preparation: AFR150Y1

Breadth Requirements: Society and its Institutions (3)

AFR299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

AFR322H1 - The Contemporary African Novel

Previous Course Number: NEW322H1, NEW322Y1

Hours: 24S

Novels written in the last forty years by English, French and Portuguese-speaking Africans. Ideological views concerning colonialism and neo-colonialism. Tradition, religious and secular; the use of African symbolism. A small number of historical and sociological texts are recommended as essential background reading. Works not written in English are read in translation. (Offered in alternate years)

Exclusion: NEW322H1, NEW322Y1

Breadth Requirements: Creative and Cultural Representations (1)

AFR340H1 - The Literary Lives of African Women

Hours: 24L

This course will track the literary history of African women through their writings. Students will study a variety of texts including memoirs, novels, short stories, creative non-fiction, drama, and poetry produced by African women with an eye to the politics of representation and legibility in these texts. This course will ask, how have African women written about their relationships to colonization, domesticity, citizenship, and national politics? It will also engage questions about the varieties of their experiences with motherhood, knowledge-making, displacement, citizenship, and belonging.

Prerequisite: Completion of 6.0 credits

Recommended Preparation: AFR150Y1/ AFR270H1

Breadth Requirements: Creative and Cultural Representations (1)

JAH350H1 - AIDS, Outbreaks, Pandemics: Challenges and Successes in Africa

Previous Course Number: JNH350H1

Hours: 24L

Explores a range of historical and current outbreaks, pandemics and epidemics such as AIDS, COVID-19 and Ebola in Africa through a social science lens. It introduces students to major concepts, events and debates that have and continue to shape understanding of the HIV/AIDS epidemic, Ebola outbreak and COVID-19 pandemic, and the challenges and responses to these distinct health crises. Through a critical lens, students will engage diverse and interdisciplinary scholarship from public health, medical anthropology, sociology, African studies, and related fields within the health and social sciences fields to explore the converging factors that influence responses to health crises and their broader implications.

Prerequisite: 9.0 credits

Exclusion: JNH350H1

Recommended Preparation: AFR150Y1/ AFR290H1 or HMB203H1/ HMB202H1 or interested students with relevant background

Breadth Requirements: Society and its Institutions (3)

AFR351Y1 - African Systems of Thought

Previous Course Number: NEW351Y1, NEW252Y1

Hours: 48L

The exploration of a range of African cosmologies, epistemologies, and theologies, as well as specific case studies on justice, the moral order, and gender relations. The influence of these richly diverse traditions is traced as well in the writings of African thinkers in the Diaspora.

Exclusion: NEW351Y1, NEW252Y1, JAP256H1/
JAP356H1

Recommended Preparation: AFR150Y1

Breadth Requirements: Society and its Institutions (3),
Thought, Belief and Behaviour (2)

AFR352H1 - International Organizations, NGOs, Development and Change in Africa

Previous Course Number: NEW352H1

Hours: 24L

Critically explores the role of international organizations such as the World Bank Group, the UN and NGOs in the economic development of Africa.

Prerequisite: AFR150Y1/ AFR250Y1

Exclusion: NEW352H1

Breadth Requirements: Society and its Institutions (3)

AFR353H1 - International Relations of Africa

Previous Course Number: NEW353H1

Hours: 24L

Explores inter-state relations in Africa, African states' relations with the West, China, India, Brazil, and international political, economic and financial institutions.

Prerequisite: AFR150Y1/ AFR250Y1

Exclusion: NEW353H1, POLC80H3

Breadth Requirements: Society and its Institutions (3)

AFR354H1 - African Cultures and Development

Previous Course Number: NEW354H1

Hours: 24L

Critically examines scholarly debates on the relationships between African cultures and development in various regions of the continent. Draws on interdisciplinary scholarship and development discourses to enhance students' understanding of African conditions and cultures in the context of development thinking.

Prerequisite: AFR150Y1/ AFR250Y1

Exclusion: NEW354H1, NEW358H1 (Special Topics in African Studies: Culture and Development in Postcolonial Africa), offered in Winter 2015, Winter 2016, Fall 2016, Fall 2017, Fall 2018, Fall 2019

Breadth Requirements: Society and its Institutions (3)

AFR355H1 - African Youth Languages and Cultures

Previous Course Number: NEW355H1

Hours: 24L

Examines the nature of youth languages and cultures in contemporary Africa with a focus on their characteristics and the conditions under which they develop. Also considers similarities and/or differences between youth languages and cultures in different regions of Africa and the general youth condition. Includes urban youth languages such as Sheng, Engsh, Tsotsitaal, etc. and music genres associated with youth such as hip hop, Bongo flava, etc. Discusses challenges and opportunities associated with African youth languages as they relate to questions of identity, national integration, regional integration, and development.

Prerequisite: AFR150Y1/ AFR250Y1/ AFR280Y1

Exclusion: NEW355H1, NEW358H1 (Special Topics in African Studies: African Youth Languages and Cultures), offered in Winter 2018

Breadth Requirements: Thought, Belief and Behaviour (2)

AFR357H1 - Special Topics in African Studies

Previous Course Number: NEW357H1

Hours: 24L

An upper level course. Topics of study vary from year to year.

Prerequisite: AFR150Y1/ AFR250Y1

AFR358H1 - Special Topics in African Studies

Previous Course Number: NEW358H1

Hours: 24L

An upper level course. Topics of study vary from year to year.

Prerequisite: [AFR150Y1](#)/ [AFR250Y1](#)

AFR359H1 - The Horn of Africa - Critical Perspectives

Previous Course Number: NEW359H1

Hours: 24L

Examines the Horn of Africa, its diversity, geopolitics, cultural politics, present conditions and current debates through a critical and comparative lens. Considers social forces in contemporary politics within the region including competing claims, explanations of the underpinnings of the Horn's conflict, and the promise of peace. Draws upon interdisciplinary scholarship, public discourse, texts and media to reflect on the future of the Horn of Africa at this historical moment.

Prerequisite: Completion of at least 4.0 credits

Exclusion: NEW359H1, NEW357H1 (Special Topics in African Studies: The Horn of Africa: Critical Perspectives) offered in Fall 2018, Fall 2019

Recommended Preparation: [AFR150Y1](#)/ [AFR250Y1](#)

Breadth Requirements: Society and its Institutions (3)

AFR365H1 - Art, Media and Politics in Africa and the African Diaspora

Hours: 24L

Explores the critical intersections between art, media and politics by analyzing the making and circulation of various indigenous and modern art forms and their use as creative and radical strategies for creative expression, dissent, citizenship, and alternative forms of representation, reimaginings, transcendence and agency in African post-colonial contexts, and interconnected with the African Diaspora.

Prerequisite: Completion of 4.0 credits.

Exclusion: NEW357H1 (Special Topics in African Studies: Art, Media and Politics in Africa and the African Diaspora), offered in Winter 2019 and Fall 2019

Recommended Preparation: [AFR150Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

AFR370H1 - Anticolonialism, Radicalism and Revolutions in Africa

Hours: 24L

An interdisciplinary exploration of the histories of nationalist and revolutionary movements, ideologies, and regimes in twentieth and twenty-first century Africa, examining the various ways that Africans imagined, actively shaped, and continue to demand freedom and political modernity. Emphasis will be placed on African history methodology (including oral history) and historiography to encourage students to apply a historical lens to approaching key themes and concepts in African Studies such as nationalism, decolonization, the state, politics, citizenship, labour movements, and pro-democracy movements.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: [AFR150Y1](#)/ [HIS295Y1](#)/ [HIS297Y1](#)

Breadth Requirements: Society and its Institutions (3)

JAA377H1 - Black Radical Theory from the Global South: Anthropological Perspectives

Hours: 24L

This course will survey the works of Black theorists and anthropologists from the Global South, who are shaping current debates within and beyond the discipline of Anthropology, concerning colonialism and decolonization, Marxism, indigeneity, political economy, Black radical thought, queer theory and decolonial feminism. Students will look at how these works challenge the "Northern Academy's monoliteracy" (Musila), politics of knowledge production and construction of the Global South as primarily a site of fieldwork and research extraction. Authors will include Sylvia Tamale, Wangui Kimari, Sabelo Ndlovu-Matsheni, Ochy Curiel, Keguro Macharia, Beatriz Nascimento, Michel-Rolph Trouillot and Abdelghaffar Ahmed.

Prerequisite: [ANT204H1](#)/ [ANT207H1](#)/ [ANT215H1](#)/ [AFR150Y1](#)/ [AFR290H1](#)/ [AFR298H1](#)

Breadth Requirements: Society and its Institutions (3)

AFR380Y1 - Intermediate Swahili

Previous Course Number: NEW380Y1

Hours: 24L/72T

Grammar and syntax. Conversation and written composition. Reading of texts: literary, journalistic. Relation of the language to its East African context.

Prerequisite: [AFR280Y1](#)

Exclusion: [NEW380Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

AFR389H1 - The Geopolitics and Debates on Africa-China Economic Relations

Hours: 24L

Explores the geopolitics of Africa-Asia relations, in particular, the unabated and polarized debates and narratives on China's engagement across sectors in Africa, 'Africa-China' multifaceted trade relations, strategies and interests, and economic diplomacy. Critically examines the changing landscape of economic cooperation and development financing in contemporary Africa, their underlying impulses and their broader implications.

Prerequisite: Completion of 4.0 credits

Exclusion: [NEW357H1](#)/ [AFR357H1](#) (Special Topics in African Studies: The Geopolitics and Debates on Africa-China Economic Relations), offered in Fall 2020 and Fall 2021

Recommended Preparation: [AFR150Y1](#)/ [AFR250Y1](#)/ [AFR353H1](#)

Breadth Requirements: Society and its Institutions (3)

AFR391H1 - African Studies Independent Study Course

Hours: 24S

The African Studies Independent Study course is designed both to complement regular offerings in African Studies and to provide an opportunity for African Studies students to enrich their studies. Aided and advised by a faculty supervisor, students will conduct extensive research, read relevant literature, and plan, execute, analyze and report on an original and independent investigation of an appropriate topic.

Prerequisite: At least 9.0 credits

Exclusion: [NEW391H1](#) (New College Independent Studies), offered between Winter 2020 to Winter 2023

Recommended Preparation: [AFR150Y1](#)/ [AFR250Y1](#)/ [AFR290H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

AFR450Y1 - African Studies Honours Research Seminar

Previous Course Number: NEW450Y1

Hours: 24S

This honours research seminar required of all specialists and majors in African Studies offers critical explorations of the genealogy of African Studies, the transnational study of Africa, Africa's place in a globalized world, the historical, intellectual and institutional contexts of Africanist knowledge production, its dissemination and consumption in Africa, Europe, the Americas and emerging academic sites in Asia. It engages with the paradigm shifts and vibrant scholarly and epistemic debates across disciplines and geographies as well as unfolding events, public discourses, geopolitics, African popular cultures and the reimagining of African futures through canonical, emergent scholarship and creative media. It emphasizes students' original and creative research explorations, engaged praxis and search for alternative theorizing and decolonial epistemologies. It is also open to upper level students interested in African Studies and/or research in and on Africa.

Prerequisite: [AFR150Y1](#) or any 300-level Group A Course. Students who do not meet the prerequisites are encouraged to contact the department.

Exclusion: [NEW450Y1](#)

Recommended Preparation: Any group A courses

Breadth Requirements: Society and its Institutions (3), Creative and Cultural Representations (1)

AFR451H1 - Special Topics in African Studies

Previous Course Number: NEW451H1

Hours: 24L

An upper level course. Topics of study vary from year to year.

Prerequisite: [AFR150Y1](#)/ [AFR250Y1](#)

AFR452H1 - Kiswahili in a Globalized World

Hours: 24L

Examines the state and role of Kiswahili in the globalized world of the 21st century. Traces the changes in the roles of Kiswahili over time from its beginnings as a local East African coastal language to its current status as a regional and international *lingua franca*, and gives students an opportunity to interact with Kiswahili speakers in Toronto. Explores the challenges and opportunities arising from

contact with other cultures and languages through globalization. Globalization as a potent force and its effects on Kiswahili are discussed in detail.

Prerequisite: Completion of 9.0 credits

Recommended Preparation: [AFR280Y1](#)/ [AFR380Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

AFR454H1 - Migration, Mobility, and Displacement in Contemporary Africa

Previous Course Number: NEW454H1

Hours: 24S

Why do people move voluntarily or involuntarily? What are the causes and consequences of migration and displacement in Africa? This course critically examines the multifaceted dimensions of migration, mobility, and displacement, with a specific focus on communities and populations displaced by war, environmental destruction and disaster, economic failings, and the quest for economic opportunities, love, education, or individual freedom.

Prerequisite: [AFR150Y1](#)/ [AFR250Y1](#) or permission of the instructor.

Exclusion: [NEW454H1](#), [NEW451H1](#) (Special Topics in African Studies: Migration, Mobility, and Displacement in Contemporary Africa), offered in Fall 2016

Recommended Preparation: [JQR360H1](#)/ [AFR351Y1](#)

Breadth Requirements: Society and its Institutions (3)

AFR455H1 - Conflicts, Negotiations and Peacebuilding in Africa

Previous Course Number: NEW455H1

Hours: 24S

Examines conflicts and peace negotiations in African contexts such as Somalia, Sudan, the Democratic Republic of Congo, and North Africa through public discourse, citizen actions, policy debates and mobilizations. Explores formal, informal, indigenous and institutional mediation and peace negotiation platforms, strategies, and impulses. Analyzes various conflict zones, case studies and intervention strategies for negotiating and sustaining peace in Africa in the broader context of the war on terror, increasing militarism, and securitization in peacebuilding.

Prerequisite: [AFR150Y1](#)/ [AFR250Y1](#)

Exclusion: [NEW455H1](#), [NEW451H1](#) (Special Topics in African Studies: Conflicts, Negotiations and Peacebuilding in Africa), offered in Winter 2019, Winter 2020; [NEW452H1](#)

Recommended Preparation: [AFR353H1](#)

Breadth Requirements: Society and its Institutions (3)

AFR459H1 - Advanced Special Topics in African Studies

Previous Course Number: NEW459H1

Hours: 24L

An upper-level course. Topics of study vary from year to year.

Prerequisite: [AFR150Y1](#)/ [AFR250Y1](#)

AFR460H1 - Climate Change, Food Security, and Sustainability in Africa

Hours: 24L

Food security is a critical challenge for many African countries and, in the past decades, has been exacerbated by climate change. To understand the complexities of food insecurity and to explore possible pathways for a food-secure Africa, we ask: what is the nexus between food security, climate change, and sustainability in Africa? How is food security intertwined with livelihood security, rights, justice, resource governance, conflicts, natural disasters, uncertainties, and risks and vulnerabilities? What are the challenges and opportunities for sustainable futures in Africa? Which theoretical frameworks illuminate these complexities? Students will learn through case study analyses, guest lectures, modeling and scenario-building exercises, and engagement with indigenous knowledge systems, canonical and emergent interdisciplinary scholarship on the topic.

Prerequisite: Completion of 6.0 credits

Exclusion: [AFR459H1](#) (Topic: *Climate Change, Food Security and Sustainability in Africa*), offered in Winter 2022 and Winter 2024

Recommended Preparation: [AFR150Y1](#) or [AFR290H1](#) or interested students with relevant background

Breadth Requirements: Society and its Institutions (3)

AFR465H1 - African Cities and Urban Futures

Hours: 24L

From slums, bustling cultural scenes and cityscapes, to diaspora lanes, African cities show diverse trajectories, inequalities and uneven pace of urbanization. Challenging clichés of African cities as 'dystopian' and 'off the map', this course critically examines the processes and dynamics of urban transformation and rapid urbanization

of African cities and their socio-cultural, ecological, political and economic implications. It interrogates key drivers of urbanization, sustainable urban development, livelihoods, inclusive and just urbanism challenges, urban policies and governance, and the reimagining of African urban futures. Students will learn from cutting edge scholarship and engage with speakers and Africa-based city-builders, policy makers, artists, activists, and social entrepreneurs.

Prerequisite: Completion of 6.0 credits

Recommended Preparation: AFR150Y1 or AFR290H1 or interested students with relevant background

Breadth Requirements: Society and its Institutions (3)

AFR490Y1 - African Studies Independent Study Course

Hours: 48S

The African Studies Independent Study course is designed both to complement regular offerings in African Studies and to provide an opportunity for African Studies students to enrich their studies. Aided and advised by a faculty supervisor, students will conduct extensive research, read relevant literature, and plan, execute, analyze and report on an original and independent investigation of an appropriate topic. The exact Breadth Requirement category to be assigned to this course is based on the topic chosen by the student and approved by their faculty supervisor.

Prerequisite: At least 9.0 credits

Exclusion: NEW490Y1 (if taken before 2025)

Recommended Preparation: AFR150Y1/ AFR250Y1/ AFR290H1

AFR491H1 - African Studies Independent Study Course

Hours: 48S

The African Studies Independent study course is designed both to complement regular offerings in African Studies and to provide an opportunity for African Studies students to enrich their studies. Students, aided and advised by a faculty supervisor, will conduct extensive research, read relevant literature, and plan, execute, analyze and report on an original and independent investigation of an appropriate topic. The exact Breadth Requirement category to be assigned to this course is based on the topic chosen by the student and approved by their faculty supervisor.

Prerequisite: At least 9.0 credits

Exclusion: NEW490H1 [If taken before 2025]

Recommended Preparation: AFR150Y1/ AFR250Y1/ AFR290H1

AFR499H1 - Advanced Topics in African Studies

Hours: 24S

A joint graduate/undergraduate upper-level seminar. Topics vary from year to year, depending on the instructor. Consult the Program Office for course enrolment procedures.

Prerequisite: AFR150Y1/ AFR250Y1, at least 1.0 credit from African Studies Group A at the 300+ level. Students who do not meet the prerequisites are encouraged to contact the Program Office.

American Studies

Faculty List

Professor and Director

Rick Halpern, PhD. Director, American Studies Program and Centre for the Study of the United States

Assistant Professors, Teaching Stream

Alexandra Rahr, PhD. Director of Undergraduate Programs and Student Experience
Leah Montange, PhD. Bissell-Heyd Lecturer in American Studies

Introduction

The American Studies Program is designed to provide students with a broad, yet deep, education about the United States and its role in the world. American Studies' small and topical core courses allow students to engage intellectually with a rapidly changing world and ask, "what is America, how has it changed, and what are the best ways to study and understand it?"

To ensure breadth, students are required to take two interdisciplinary core courses that both range widely with respect to content and multidisciplinary perspectives. As well, the Program offers a wide selection of courses from participating departments and programs such as Geography, Political Science, History, Music, Cinema Studies, Economics, English, Indigenous Studies, Religion, Sociology, Caribbean Studies, and Canadian Studies, giving students broad exposure to fundamental themes animating American life. To ensure depth, the American Studies Program relies heavily on upper-level courses, including seminars at the 300 and 400-levels.

Enquiries:

Program Coordinator, Munk School of Global Affairs & Public Policy, 1 Devonshire Place Room 327N, (416-946-8972), csus@utoronto.ca

American Studies Programs

American Studies Major (Arts Program) - ASMAJ0135

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

7.0 credits specified as follows:

1. AMS200H1 (formerly USA200H1) and AMS300H1 (formerly USA300H1) (total of 1.0 credit).

2. 1.0 credit from the gateway courses in American Studies (AMS100H1), Munk School (MUN120H1), English (ENG250H1 and either ENG270H1 or ENG235H1), History (HIS271Y1), Geography (GGR240H1 and GGR254H1), or Political Science (POL386Y1 or the combination of POL347H1 and POL386H1), or Cinema Studies (CIN270Y1).

3. Three of the following selections:

- 1.0 credit from the Politics and Economics disciplinary/thematic cluster
- 1.0 credit from the Society disciplinary/thematic cluster
- 1.0 credit from the Culture disciplinary/thematic cluster
- 1.0 credit from the History disciplinary/thematic cluster

4. 0.5 credit in Breadth Requirement Category 5: The Physical or Mathematical Universe, or another 0.5 credit approved by the CSUS Program Director, to fulfill the Quantitative Reasoning competency requirement of the program.

5. Additional AMS/USA courses or courses from the American Studies Program disciplinary/thematic clusters to a total of 7.0 credits, including requirement #4 above.

6. At least 2.0 credits of the student's 7.0 credits must be at the 300-level or above.

7. At least 1.5 credits of the student's program must be in American Studies (AMS prefix courses), at the 300-level or above, with at least 0.5 credits of these at the 400-level.

Recommended Sequence of Courses:

First Year:

Students are encouraged to take any pre-requisites for the gateway course required, and/or enroll directly in AMS100H1, MUN120H1, or AMS200H1 as a first-year student. Of the required gateway courses, POL347H1, POL386H1 and POL386Y1 have pre-requisites of a course that deals substantially with politics; students interested in these courses, therefore, should confer with the instructor as to whether their course work includes a pre-requisite for these courses. Other recommended courses at the first year level include: HIS106Y1.

Second Year:

- AMS200H1
- AMS220H1 (or) HIS271Y1 (or) ENG250H1 AND either ENG270H1 or ENG235H1 (or) GGR240H1 AND GGR254H1 (or) POL386Y1, or POL347H1 AND POL386H1

Second, Third, and Fourth Years:

- AMS300H1, plus other eligible courses, to a total of 7.0 credits.
- At least 2.0 of these courses must be at the 300-level or above.
- At least 1.5 of these courses must be in American Studies (AMS prefix courses) at the 300- or 400-level. Courses must be chosen in a way that satisfies the disciplinary/thematic variety described above, plus 0.5 credit in Breadth Requirement Category 5, or another half course approved by the CSUS Program Director, to fulfill the Quantitative Reasoning competency requirement of the program.

*NOTE 1: Other 300+ level courses with 50% or more American content may be allowed; students should seek early approval of program credit for such courses from the CSUS Director.

Disciplinary/Thematic Cluster 1: Politics and Economics

ECO306H1/ POL326H1/ POL327H1/ POL347H1/ POL377H1/ POL386H1/ POL386Y1/ POL326Y1/ POL379H1/ POL404Y1/ POL433H1/ POL443H1/ POL464H1

Disciplinary/Thematic Cluster 2: Society

AMS311H1/ AMS330H1/ GGR240H1/ GGR254H1/ GGR336H1/ GGR339H1/ GGR359H1/ GGR458H1/ INS302H1/ INS341H1/ MUN120H1/ MUN200H1/ SOC306H1/ SOC386H1/ SOC429H5

Disciplinary/Thematic Cluster 3: Culture

AMS320H1/ CIN211H1/ CIN230H1/ CIN270Y1/ CIN310Y1/ CIN334H1/ CIN335H1/ CIN374Y1/ CIN431H1/ CIN490Y1/ CIN491H1/ CIN492H1/ ENG250H1/ ENG235H1/ ENG270H1/ ENG355Y1/ ENG360H1/ ENG363Y1/ ENG364Y1/ ENG365H1/ ENG368H1/ ENG379H1/ ENG484H1/ MUS306H1/ RLG315H1/ CAR324H1/ JLN427H1/ CDN368H1/ FAH351H1

Disciplinary/Thematic Cluster 4: History

AMS220H1/ HIS106Y1/ HIS202H1/ HIS221H1/ HIS222H1/ HIS271Y1/ HIS300H1/ HIS310H1/ HIS343H1/ HIS345H1/ HIS366H1/ HIS369H1/ HIS374H1/ HIS376H1/ HIS377H1/ HIS378H1/ HIS379H1/ HIS389H1/ HIS389Y1/ HIS396H1/ HIS400H1/ HIS401H1/ HIS404H1/ HIS411H1/

HIS463H1/ HIS464H1/ HIS465Y1/ HIS473H1/ HIS479H1/ HIS484H1/ HIS487H1/ HIS497H1

*NOTE: This list of eligible courses is not exhaustive and some courses may not be offered every year. Please visit the CSUS website for more information.

American Studies Minor (Arts Program) - ASMIN0135

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300+ level in at least two American Studies Program disciplinary/thematic clusters, categorized as follows: a) Politics and Economics b) Society (e.g. Indigenous Studies, Anthropology, East Asian Studies, Geography) c) Culture (e.g. Cinema Studies, English, Music, Religion) d) History)

Second year:

1. AMS200H1 (formerly USA200H1)

2. 1.0 credit from the gateway courses in American Studies (AMS100H1), Munk School (MUN120H1), English (ENG250H1 and either ENG270H1 or ENG235H1), History (HIS271Y1), Geography (GGR240H1 and GGR254H1), Political Science (POL386Y1 or the combination of POL347H1 and POL386H1), or Cinema Studies (CIN270Y1).

Second, third, and fourth years:

3. 2.5 credits from AMS/USA courses (excluding AMS200H1/ USA200H1) or from the eligible courses listed below. These credits must include 1.0 credit at the 300+ level from AMS courses.

*NOTE 1: Other 300+ level courses with American content may be allowed; students should seek early approval of program credit for such courses.

Disciplinary/Thematic Cluster 1: Politics and Economics

ECO306H1/ POL326H1/ POL327H1/ POL347H1/ POL377H1/ POL386H1/ POL386Y1/ POL326Y1/ POL379H1/ POL404Y1/ POL433H1/ POL443H1/ POL464H1

Disciplinary/Thematic Cluster 2: Society

AMS311H1/ AMS330H1/ GGR240H1/ GGR254H1/ GGR336H1/ GGR339H1/ GGR359H1/ GGR458H1/

INS302H1/ INS341H1/ MUN120H1/ MUN200H1/
SOC306H1/ SOC386H1/ SOC429H5

Disciplinary/Thematic Cluster 3: Culture

AMS320H1/ CIN211H1/ CIN230H1/ CIN270Y1/
CIN310Y1/ CIN334H1/ CIN335H1/ CIN374Y1/ CIN431H1/
CIN490Y1/ CIN491H1/ CIN492H1/ ENG250H1/
ENG235H1/ ENG270H1/ ENG355Y1/ ENG360H1/
ENG363Y1/ ENG364Y1/ ENG365H1/ ENG368H1/
ENG379H1/ ENG484H1/ MUS306H1/ RLG315H1/
CAR324H1/ JLN427H1/ CDN368H1/ FAH351H1

Disciplinary/Thematic Cluster 4: History

AMS220H1/ HIS106Y1/ HIS202H1/ HIS221H1/
HIS222H1/ HIS271Y1/ HIS300H1/ HIS310H1/ HIS343H1/
HIS345H1/ HIS366H1/ HIS369H1/ HIS374H1/ HIS376H1/
HIS377H1/ HIS378H1/ HIS379H1/ HIS389H1/ HIS389Y1/
HIS396H1/ HIS400H1/ HIS401H1/ HIS404H1/ HIS411H1/
HIS463H1/ HIS464H1/ HIS465Y1/ HIS473H1/ HIS479H1/
HIS484H1/ HIS487H1/ HIS497H1

*NOTE: This list of eligible courses is not exhaustive and some courses may not be offered every year. Please visit the [CSUS website](#) for more information.

American Studies Courses

AMS100H1 - Global Capitalism

Hours: 24L/8T

This course explores the rise of capitalism – understood not simply as an economic system but as a political and cultural one as well. It aims to acquaint students with the more important socio-economic changes of the past 600 years with an eye towards informing the way they think about problems of the present time: globalization, growing disparities of wealth, and the exploitation of natural resources. It seeks to foster a critical approach to the way in which the world is organized. A dual mission stands at its centre: it utilizes a focus on capitalism as a tool of scholarly understanding of the way the world has evolved, and it assists students in developing a critique of capitalism as a system.

Breadth Requirements: Society and its Institutions (3)

MUN120H1 - Revolutions

Hours: 24L/8T

This course transcends time and place to delve into the overarching dynamics of revolution. This exploration of revolutions goes beyond simple chronology to uncover

To see our full list of American Studies courses offered in 2024-2025, please go to our website at the Centre for the Study of the United States, at the Munk School of Global Affairs & Public Policy
 here: <https://munkschool.utoronto.ca/american-studies>

Courses Eligible for Program Credit

Please visit our [website](#) for more information on courses eligible for program credit, as the list of courses in the program requirements is not exhaustive. Some of the courses may not be offered every year. Certain courses have prerequisites and exclusions, so check the Calendar listings, or the offering department/program websites.

Students who wish to count non-AMS courses towards the program that are not listed in the program completion requirements (including U of T courses and transfer credits) must seek permission from the program director IN ADVANCE. Course approval is not guaranteed and will be given at the discretion of the program director. Please consult the program advisor at csus@utoronto.ca with questions.

common threads that unite these transformative events. From the spirit that ignited the English Revolution to the fervor of the American Revolution, the course navigates through the social and political forces that reshaped societies. Students will dissect the emergence of radical change, tracing its evolution from the French Revolution to the Revolutions of 1848 and the birth of modern political ideologies. The course then navigates through the 20th century, from the Russian and Chinese Revolutions to the Cuban Revolution and the intricate web of Latin American revolutionary movements. Comparative analysis delves into the universal and unique aspects of these revolutions, offering students an understanding of the power and influence of these transformative moments.

Breadth Requirements: Thought, Belief and Behaviour (2)

AMS200H1 - Introduction to American Studies

Previous Course Number: USA200H1
Hours: 24L

A formal introduction to the interdisciplinary study of the United States and to the field of American Studies. Drawing from a variety of source materials ranging from political and literary to visual culture and material artifacts, this course examines the politics, history and culture of the U.S. A major emphasis will be learning to analyze primary sources.

Exclusion: [USA200H1](#)

Breadth Requirements: Society and its Institutions (3)

AMS210H1 - Concepts in American Studies

Hours: 24L

An interdisciplinary introduction to concepts key to the study of the United States in the world. Course materials will range from political, cultural, and literary theory to visual and material artifacts. Examining issues in the politics, history, and culture of the U.S., the course will give a grounding in the methods and ideas that make up the practice of American Studies.

Breadth Requirements: Society and its Institutions (3)

AMS220H1 - Depression Era America: History, Politics, Culture

Hours: 24S

This course explores the 1930s on a number of interconnected levels, prompting students to link the economic, political, and cultural planes of Americans' lived experience in an informed way. It starts with the impact of the 1929 Crash, looking at the ways this reshaped values, and conceptions of race and gender, and also allowed unprecedented critiques and organizational forms to emerge. It then considers local and federal responses to economic catastrophe, emphasizing the emergence of regulatory mechanisms that further reshaped social relations. With this foundation in place, the course turns to consider three forms of artistic production in which the social dynamics of the age found powerful echo: FSA photography and WPA murals; experimental literature; and cinema.

Recommended Preparation: [HIS271Y1](#)

Breadth Requirements: Society and its Institutions (3)

AMS300H1 - Theories and Methods in American Studies

Previous Course Number: USA300H1

Hours: 24L

This course, required for majors and minors but open to all who have met the pre-requisites, explores a range of approaches to the field of American Studies. Students will be introduced to some of the many 'theories and methods' that have animated the field of American Studies, including historical methods; formal analysis of visual and literary texts; and key concepts, such as commodity chain

analysis; 'race,' 'commodity,' 'gender,' 'diaspora,' and 'affect.'

Prerequisite: [HIS271Y1](#)/ [ENG250Y1](#)/ [GGR240H1](#)/ [GGR254H1](#)/ [POL203Y1](#)/ [POL386Y1](#)/ ([POL347H1](#), [POL386H1](#)). If you do not have these prerequisites but would like to take the course, please contact the instructor and/or csus@utoronto.ca to discuss exceptions to the prerequisites.

Exclusion: [USA300H1](#), [USA300Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

AMS310H1 - Approaches to American Studies

Previous Course Number: USA310H1

Hours: 24L

An in-depth, interdisciplinary examination of a specific question concerning U.S. history, politics, and/or culture. Focus varies depending on instructor. Major emphases include reading critically and the initial steps of conducting original research.

Prerequisite: [AMS300H1](#)/ [USA300H1](#), or 1.0 credit chosen from the four American Studies Program disciplinary/thematic clusters (Politics and Economics, Society, Culture, and History) as published in the American Studies section of the Calendar. If you do not have these prerequisites but would like to take the course, please contact the instructor and/or csus@utoronto.ca to discuss exceptions to the prerequisites.

Breadth Requirements: Creative and Cultural Representations (1)

AMS311H1 - Approaches to American Studies

Previous Course Number: USA311H1

Hours: 24L

An in-depth, interdisciplinary examination of a specific question concerning U.S. history, politics, and/or culture. Focus varies depending on instructor. Major emphases include reading critically and the initial steps of conducting original research.

Prerequisite: [AMS300H1](#)/ [USA300H1](#), or 1.0 credit chosen from the four American Studies Program disciplinary/thematic clusters (Politics and Economics, Society, Culture, and History) as published in the American Studies section of the Calendar. If you do not have these prerequisites but would like to take the course, please contact the instructor and/or csus@utoronto.ca to discuss exceptions to the prerequisites.

Breadth Requirements: Creative and Cultural Representations (1)

AMS312H1 - Approaches to American Studies

Previous Course Number: USA312H1

Hours: 24L

An in-depth, interdisciplinary examination of a specific question concerning U.S. history, politics, and/or culture. Focus varies depending on instructor. Major emphases include reading critically and the initial steps of conducting original research.

Prerequisite: AMS300H1/ USA300H1, or 1.0 credit chosen from the four American Studies Program disciplinary/thematic clusters (Politics and Economics, Society, Culture, and History) as published in the American Studies section of the Calendar. If you do not have these prerequisites but would like to take the course, please contact the instructor and/or csus@utoronto.ca to discuss exceptions to the prerequisites.

Breadth Requirements: Society and its Institutions (3)

AMS313H1 - Approaches to American Studies

Previous Course Number: USA313H1

Hours: 24L

An in-depth, interdisciplinary examination of a specific question concerning U.S. history, politics, and/or culture. Focus varies depending on instructor. Major emphases include reading critically and the initial steps of conducting original research.

Prerequisite: AMS300H1/ USA300H1, or 1.0 credit chosen from the four American Studies Program disciplinary/thematic clusters (Politics and Economics, Society, Culture, and History) as published in the American Studies section of the Calendar. If you do not have these prerequisites but would like to take the course, please contact the instructor and/or csus@utoronto.ca to discuss exceptions to the prerequisites.

Breadth Requirements: Society and its Institutions (3)

AMS320H1 - Tearing Down Monuments: Controversies in Public Memory

Previous Course Number: AMS199H1

Hours: 24L

As statues are kicked off their pedestals all around the world, this class reckons with the legacy and future of

public memory cultures. We'll consider the history, geography, aesthetics, bureaucracy, ecologies, and ideologies of both local and U.S. American memorials. And we'll examine the birth, life, death, and afterlives of both conventional monuments and emerging forms of material and digital alt-memorialization.

Prerequisite: AMS200H1 or 1.0 credit chosen from the four American Studies Program disciplinary/thematic clusters (Politics and Economics, Society, Culture, and History) as published in the American Studies section of the Calendar. If you do not have these prerequisites but would like to take the course, please contact the instructor and/or csus@utoronto.ca to discuss exceptions to the prerequisites.

Exclusion: AMS199H1

Breadth Requirements: Creative and Cultural Representations (1)

AMS330H1 - Transnational America

Previous Course Number: AMS313H1

Hours: 24S

The United States -- as a global military, cultural, and economic power -- has always been a transnational space. In this course, students will read texts that emphasize the transnational dimensions of the US, learning about a range of topics that may include borders, global supply chains, immigration, food cultures, media, and the reach of the US military. In what ways do the United States and its people exceed their national boundaries? And in what ways are the United States and its people shaped by "elsewhere"?

Exclusion: AMS313H1 (Approaches to American Studies: *Transnational America*) offered in Winter 2024

Recommended Preparation: AMS200H1

Breadth Requirements: Society and its Institutions (3)

AMS400H1 - Topics in American Studies

Previous Course Number: USA400H1

Hours: 24S

In-depth examination of specific themes relating to American Studies.

Prerequisite: 2.0 credits chosen from courses with the AMS/USA designator or from the four American Studies Program disciplinary/thematic clusters (Politics and Economics, Society, Culture, and History) as published in the American Studies section of the Calendar. If you do not have these prerequisites but would like to take the course, please contact the instructor and/or csus@utoronto.ca to discuss exceptions to the

prerequisites.

Breadth Requirements: Creative and Cultural Representations (1)

AMS401H1 - Topics in American Studies

Previous Course Number: USA401H1

Hours: 24S

In-depth examination of specific themes relating to American Studies.

Prerequisite: 2.0 credits chosen from courses with the AMS/USA designator or from the four American Studies Program disciplinary/thematic clusters (Politics and Economics, Society, Culture, and History) as published in the American Studies section of the Calendar. If you do not have these prerequisites but would like to take the course, please contact the instructor and/or csus@utoronto.ca to discuss exceptions to the prerequisites.

Breadth Requirements: Creative and Cultural Representations (1)

AMS402H1 - Topics in American Studies

Previous Course Number: USA402H1

Hours: 24S

In-depth examination of specific themes relating to American Studies.

Prerequisite: 2.0 credits chosen from courses with the AMS/USA designator or from the four American Studies Program disciplinary/thematic clusters (Politics and Economics, Society, Culture, and History) as published in the American Studies section of the Calendar. If you do not have these prerequisites but would like to take the course, please contact the instructor and/or csus@utoronto.ca to discuss exceptions to the prerequisites.

Breadth Requirements: Society and its Institutions (3)

AMS403H1 - Topics in American Studies

Previous Course Number: USA403H1

Hours: 24S

In-depth examination of specific themes relating to American Studies.

Prerequisite: 2.0 credits chosen from courses with the AMS/USA designator or from the four American Studies Program disciplinary/thematic clusters (Politics and Economics, Society, Culture, and History) as published in the American Studies section of the Calendar. If you do not have these prerequisites but would like to take the course, please contact the instructor and/or csus@utoronto.ca to discuss exceptions to the prerequisites.

Breadth Requirements: Society and its Institutions (3)

AMS494H1 - Independent Studies

Previous Course Number: USA494H1

Independent Studies. Not eligible for CR/NCR option.

Exclusion: [USA494H1](#)

AMS495Y1 - Independent Studies

Previous Course Number: USA495Y1

Independent Studies. Not eligible for CR/NCR option.

Exclusion: [USA495Y1](#)

Anatomy

Faculty List

Professors and Co-Chairs of the Division

C. Morshead, PhD
H.S. Sun, MD, MSc, PhD

Professors Emerita

P.A. Stewart, PhD
I.M. Taylor, MD
M.J. Wiley, MSc, PhD

Professor

A.M. Agur, MSc, PhD

Associate Professor

P. Koeberle, PhD

Associate Professors, Teaching Stream

B. A. Ballyk, BScH, MSc, PhD
J. LaPrade, PhD

Assistant Professor

M. Faiz, MSc, PhD

Assistant Professors, Teaching Stream

T. Alexson, PhD
D. Bentley, R Kin, PhD
K. Lisk, BScH, MSc, PhD
J. Tran, BSc (Hons), PhD

Anatomy Courses

ANA200H1 - Human Visceral Anatomy

Hours: 36L/12P

This course introduces students to the gross anatomy of human visceral systems.

Exclusion: ANA300Y1, ANA126Y1

Recommended Preparation: 4U Biology

Breadth Requirements: Living Things and Their Environment (4)

ANA300Y1 - Human Anatomy and Histology

Hours: 86L/18P

Structure of the human body and its relationship to function. Basic human histology, gross anatomy and neuroanatomy.

Prerequisite: BIO130H1/ BIO152H5/ BIOA01H3/ ANA126Y1/ (ANA124H1, ANA125H1)/ ANA200H1

Breadth Requirements: Living Things and Their Environment (4)

ANA301H1 - Human Embryology

Hours: 48L

Human embryology from fertilization to the end of the fetal period. Current concepts in mammalian morphogenesis applied to the development of the various organ systems; etiologies and pathogenesis of some of the more common human congenital abnormalities.

Prerequisite: BIO130H1

Breadth Requirements: Living Things and Their Environment (4)

ANA400H1 - Anatomy Dissection

Hours: 24P/24S

A focused series of Anatomical dissections will be made and the surgical implications of the findings will be the subject of seminars. Attitudes to dissection of the human body, complications of surgery and other relevant issues will be discussed.

Prerequisite: ANA300Y1/ ANA126Y1/ (ANA124H1, ANA125H1). Normally a "B" standing will be required.

Breadth Requirements: Living Things and Their Environment (4)

JHA410H1 - Clinical Neuroimaging

Hours: 24L/12T

This course focuses on the use of neuroimaging techniques in understanding how trauma, disorders, and disease impact neural structure and function. Lectures will focus on introduction to techniques and clinical/research applications. Lab work will focus on the development of

practical skills including image processing, analyses, and experimental design.

Prerequisite: Completion of 9.0 credits including PSL300H1, BIO230H1, and one of HMB200H1/PSY290H1/ANA300Y1

Recommended Preparation: HMB320H1

Breadth Requirements: Living Things and Their Environment (4)

ANA411H1 - Anatomy in Application: Exercise & Biomechanics

Hours: 24P/36S

This course will cover musculoskeletal anatomy (both upper and lower limb) topics with an emphasis on applying detailed anatomical review, biomechanical principles and research evidence to explain or clarify exercise principles and myths.

Prerequisite: ANA126Y1 or ANA300Y1 (78%) or equivalent

Breadth Requirements: Living Things and Their Environment (4)

ANA420H1 - Anatomy of the Stem Cell Niche

Hours: 24L/12T/2P

This course introduces the anatomy and histology of stem cell niches in the adult and relates adult stem cells to organ function throughout the body. It is designed to build upon students' knowledge of basic human anatomy and histology.

Prerequisite: Completion of 9.0 credits including one of BIO230H1/PSL201Y1/PSL300H1/ANA301H1/ANA300Y1/HMB302H1

Breadth Requirements: Living Things and Their Environment (4)

ANA498Y1 - Project in Anatomy

A research project in Histology, Cellular or Molecular Biology, Developmental Biology, Neuroanatomy or Gross Anatomy. Not eligible for CR/NCR option.

Prerequisite: Permission of a professor to supervise the project

Breadth Requirements: Living Things and Their Environment (4)

Anthropology

Faculty List

University Professor Emeritus

R.B. Lee, MA, PhD, FRSC

Professors Emeriti

J.P. Boddy, MA, PhD, FRSC
 F.D. Burton, MA, PhD (UTSC)
 J.J. Chew, MA, PhD
 G.G. Coupland, MA, PhD
 G.W. Crawford, MA, PhD, FRSC (UTM)
 M. Danesi, MA, PhD, FRSC (V)
 M.R. Kleindienst, MA, PhD (UTM)
 M.J. Lambek, MA, PhD, FRSC (UTSC)
 H.V. Luong, MA, PhD
 J. Mavalwala, MSc, PhD
 S.K. Pfeiffer, MA, PhD
 S.B. Philpott, MA, PhD
 B.A. Sigmon, MS, PhD (UTM)
 G.A. Smith, MA, PhD (U)

Associate Professors Emeriti

H. Cunningham, MA, PhD (U)
 G.S. Gillison, BA, PhD (T)
 M.A. Latta, MA, PhD (UTSC)
 M.D. Levin, MA, PhD (N)
 D.G. Smith, MA, PhD (UTM)

Professors and Chairs of the Department

T.M. Friesen, MA, PhD, Graduate Chair
 H. Wardlow, MA, PhD, MPH, Chair, St. George Campus

University Professor

T. Li, MA, PhD (U)

Professors

E.B. Banning, MA, PhD (U)
 J. Barker, MA, PhD
 D.R. Begun, MA, PhD
 M. Chazan, M Phil, PhD (V)
 G. Dewar, MA, PhD (UTSC)
 I. Kalmar, MA, PhD (W, V)
 S. Lehman, MA, PhD
 B. McElhinny, MA, PhD
 A. Mittermaier, MA, PhD
 V. Napolitano, MA, PhD
 E. Parra, BS, PhD (UTM)
 L.A. Sawchuk, MA, PhD (UTSC)
 M. Schillaci, MA, PhD (UTSC)
 D. Sellen, MA, PhD
 J. Sidnell, MA, PhD (UTM)
 M. Silcox, PhD (UTSC)
 J. Song, PhD
 E. Swenson, MA, PhD

J. S. Taylor, MA, PhD

Associate Professors

S. Bamford, MA, PhD (UTSC)
 F. Cody, MA, PhD (UTM, AI)
 G. Daswani, MSc, PhD (UTSC)
 N. Dave, MA, PhD
 T. Galloway, MA, PhD (UTM)
 A. Hawkins, MA, PhD (UTM)
 S. M. Hillewaert, MA, PhD (UTM)
 K. Kilroy-Marac, PhD (UTSC)
 C. Krupa, MA, PhD (UTSC)
 H. Miller, MA, PhD (UTM)
 L. Montgomery, PhD
 A. Paz, PhD (UTSC)
 T.L. Rogers, MA, PhD (UTM)
 D. Samson, MA, PhD (UTM)
 T. Sanders, MA, PhD (UTM)
 S. Satsuka, MA, PhD
 L. Schroeder, PhD (UTM)
 J. Teichroeb, MA, PhD (UTSC)
 B. Viola, MSc, PhD
 L. Xie, MA, PhD (UTM)

Assistant Professors

A. Allen, MTS, PhD (DTS)
 F. V. Bozcali, PhD (UTM)
 D. Butler, MA PhD (UTSC)
 W. Butt, PhD (UTSC)
 M. Cameron, MSc, PhD
 B. Dahl, MA, PhD (UTSC)
 V. de Aguiar Furuie, MA, PhD (UTSC)
 N. Elamin, PhD
 D. Glass, MA, MPH
 C. Hartblay, MA, PhD (UTSC)
 N. Ike, MA, PhD
 L. Janz, MA, PhD (UTSC)
 S. Kassamali, MA, PhD
 M. Mant, MSc, PhD (UTM)
 K. Maxwell, MA, PhD
 L. Mortensen, MA, PhD (UTSC)
 N. Novroski, MSc, PhD (UTM)
 M. Ramsay, MA, PhD (UTM)
 E. Sammons, PhD
 Z. Wool, MA, PhD (UTM)
 D. Young, MA, PhD (UTSC)

Lecturers

A. Chadha, PhD
 M. Cummings, MA, PhD (UTSC)
 O. Ozcan, PhD
 A. K. Patton, MA, PhD
 S. Yeung, PhD

Introduction

Anthropology examines the complexity and diversity of human experience, past and present, through evolutionary, archaeological, social, cultural, and linguistic perspectives. As such, Anthropology is a truly interdisciplinary venture that spans the natural sciences,

social sciences, and humanities. This broad mandate has led to the division of the discipline into three broad areas of research: Archaeology; Evolutionary Anthropology; and the study of Society, Culture and Language.

Archaeologists study the material remains of the human past. Archaeological methods range widely, from the study of artifacts to the analysis of plant and animal remains, and Archaeological research covers a vast expanse of time from the earliest stone tools to the complex record left by modern industrial society. Archaeologists also grapple with a range of theoretical issues including material culture, culture change, identity, and ritual. Many archaeologists today also work in collaboration with local communities and engage with the questions of archaeological ethics.

Evolutionary Anthropology is the study of the biological diversity of humans, the history of this diversity, and the biological relationships between humans and non-human primates. Major foci in Evolutionary Anthropology include Human Biology, the study of modern humans; Osteology, the study of the human skeleton; Paleoanthropology, the study of human evolution; and Primatology, the study of non-human primates. Evolutionary anthropologists integrate biological and social variables in their explanations of the effects of evolution on humans and other primates.

At the core of the study of Society, Culture and Language is the question of how we humans organize our lives together, and why we do so in such vastly different ways. The orientation is global and contemporary. We explore social relations: relations between kin and neighbours, between genders and generations, between ethnic groups and nations, between rich and poor, between people and the natural environment that sustains them, and between people and their gods. We also explore the production and communication of meanings through rituals, images, memories, symbols and linguistic codes. Topics include environment, power, ideology, identity, subjectivity, media, sexuality, ethics, affect, activism, health, cities, work and international development.

A training in anthropology prepares students to think clearly and critically; to engage with a wide range of perspectives, experiences, and world views; and to reach ethically sound decisions. Programs available within the Department of Anthropology provide excellent preparation for careers in business, or public service and the non-profit sector, especially in areas where international and human diversity issues are important. Courses in anthropology provide a unique grounding and can be fruitfully combined with courses in a wide variety of other disciplines in the sciences, social sciences, and humanities.

Website: <https://www.anthropology.utoronto.ca/>

Undergraduate Program Administrator/Student Counsellor: Anthropology Building, 19 Ursula Franklin Street, Room 258 (416-978-6414).

Anthropology Programs

Anthropology Specialist (Society, Culture, and Language) (Arts Program) - ASSPE2112

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following course with the stated minimum grade is required:

- ANT207H1 (70%)

Completion Requirements:

(10.0 credits, including at least 2.0 credits at the 400-level)

First and/or Second Year:

1. ANT204H1 and ANT207H1

Upper Years:

2. ANT370H1 and ANT380H1
3. 6.0 credits from Group C, or Subgroup C(i) or C(ii)
4. ANT475H1 and an additional 1.5 credits at the 400-level

Note: ANT courses are those offered with the following prefixes: ANT, ARH, INS, JAA, JAL, JAR and JGA.

Group C: Society, Culture, and Language

ANT204H1, ANT205H1, ANT207H1, ANT208H1,
ANT210H1, ANT215H1, ANT299Y1, ANT324H1,
ANT342H1, ANT343H1, ANT344H1, ANT345H1,
ANT346H1, ANT347H1, ANT348H1, ANT352H1,
ANT354H1, ANT356H1, ANT357H1, ANT358H1,
ANT362H1, ANT364H1, ANT366H1, ANT370H1,
ANT374H1, ANT376H1, ANT378H1, ANT380H1,
ANT382H1, ANT384H1, ANT385H1, ANT386H1,
ANT390H1, ANT426H1, ANT435H1, ANT441H1,
ANT442H1, ANT446H1, ANT450H1, ANT456H1,
ANT457H1, ANT459H1, ANT460H1, ANT462H1,
ANT463H1, ANT464H1, ANT465H1, ANT473H1,
ANT474H1, ANT475H1, ANT480H1, ANT484H1,
ANT485H1, ANT486H1, ANT488H1, ANT490Y1,

ANT491Y1, ANT491H1, ANT497Y1, ANT498H1, ANT499H1, JAA377H1, JAH391Y0, JAH391H1, JAR301H1, JNH350H1, AFR250Y1, NMC356H1, MCS225Y1

Note: ANT390H1 may be placed in a different Course Group depending on the topic, which will vary from year to year.

Subgroup C (i): (Society, Culture and Language-Area)

ANT341H1, ANT455H1, ANT458H1, ANT472H1, ANT477H1, AFR298H1, CAR316H1, NMC241H1

Subgroup C (ii): (Society, Culture and Language – Linguistic)

ANT253H1, ANT329H1, ANT425H1, ANT483H1, ANT497Y1, ANT498H1, ANT499H1, JAL328H1, JAL355H1, JAL401H1, SLA380H1

Focus in Medical Anthropology (Specialist: Society, Culture and Language) - ASFOC2112B

This focus enables students in the Anthropology Specialist (Society, Culture, and Language) ASSPE2112, to identify courses pertaining to Medical Anthropology (Health) and receive formal acknowledgement for completing a suite of health-related anthropology courses.

Enrolment Requirements:

Enrolment in the Anthropology Specialist (Society, Culture, and Language) is required.

Completion Requirements:

3.5 credits (total)

1. ANT205H1

2. 3.0 credits from: ANT208H1, ANT345H1, ANT348H1, ANT357H1, ANT358H1, ANT382H1, ANT385H1, ANT435H1, ANT442H1, ANT446H1, ANT458H1, ANT460H1, ANT474H1, ANT488H1, JAR301H1

Health related Anthropology Special Topics courses may be chosen when offered at the third or fourth year levels.

Anthropology Major (Society, Culture, and Language) (Arts Program) - ASMAJ2112

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- ANT100Y1 (65%) or ANT207H1 (65%)

Completion Requirements:

(6.5 credits including at least 2.0 credits at the 300+ level and at least 1.0 credit at the 400-level)

First and/or Second Year:

1. ANT207H1
2. ANT204H1 or ANT205H1 or ANT210H1 or ANT253H1

Upper Years:

3. ANT370H1 or ANT425H1
4. 5.0 additional credits from Group C, or Subgroup C(i) or C(ii), including at least 1.0 credit at the 400-level. Students who want to focus more specifically on the role of language in culture and society should take ANT253H1, ANT425H1, and courses in Subgroup C (ii).

Note: ANT courses are those offered with the following prefixes: ANT, ARH, INS, JAA, JAL, JAR and JGA.

Group C: Society, Culture, and Language

ANT204H1, ANT205H1, ANT207H1, ANT208H1, ANT210H1, ANT215H1, ANT299Y1, ANT324H1, ANT342H1, ANT343H1, ANT344H1, ANT345H1, ANT346H1, ANT347H1, ANT348H1, ANT352H1, ANT354H1, ANT356H1, ANT357H1, ANT358H1, ANT362H1, ANT364H1, ANT366H1, ANT370H1, ANT374H1, ANT376H1, ANT378H1, ANT380H1, ANT382H1, ANT384H1, ANT385H1, ANT386H1, ANT390H1, ANT426H1, ANT435H1, ANT441H1, ANT442H1, ANT446H1, ANT450H1, ANT456H1, ANT457H1, ANT459H1, ANT460H1, ANT462H1, ANT463H1, ANT464H1, ANT465H1, ANT473H1, ANT474H1, ANT475H1, ANT480H1, ANT484H1, ANT485H1, ANT486H1, ANT488H1, ANT490Y1, ANT491Y1, ANT491H1, ANT497Y1, ANT498H1, ANT499H1, JAA377H1, JAH391Y0, JAH391H1, JAR301H1, JNH350H1, AFR250Y1, NMC356H1, MCS225Y1

Note: ANT390H1 may be placed in a different Course Group depending on the topic, which will vary from year to year.

Subgroup C (i): (Society, Culture and Language - Area)
ANT341H1, ANT455H1, ANT458H1, ANT472H1,
ANT477H1, AFR298H1, CAR316H1, NMC241H1

Subgroup C (ii): (Society, Culture and Language – Linguistic)
ANT253H1, ANT329H1, ANT425H1, ANT483H1,
ANT497Y1, ANT498H1, ANT499H1, JAL328H1,
JAL355H1, JAL401H1, SLA380H1

Focus in Medical Anthropology (Major: Society, Culture and Language) - ASFOC2112A

This focus enables students in the Anthropology Major (Society, Culture and Language) ASMAJ2112 to identify courses pertaining to Medical Anthropology from a sociocultural perspective and receive formal acknowledgement for completing a suite of health-related anthropology courses.

Enrolment Requirements:

Enrolment in the Anthropology Major (Society, Culture, and Language) is required.

Completion Requirements:

2.5 credits (total)

1. ANT205H1

2. 2.0 credits from: ANT208H1, ANT345H1, ANT348H1,
ANT357H1, ANT358H1, ANT382H1, ANT385H1,
ANT435H1, ANT442H1, ANT446H1, ANT458H1,
ANT460H1, ANT474H1, ANT488H1, JAR301H1

Health related Anthropology Special Topics courses may be chosen when offered at the third or fourth year levels.

Anthropology Major (General) (Arts Program) - ASMAJ1775

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- ANT100Y1 (65%) or ANT200Y1/ ARH100Y1 (65%) or ANT203Y1 (65%) or ANT204H1 (65%) or ANT207H1 (65%)

Completion Requirements:

(6.5 credits)

First and/or Second Year:

1. ANT100Y1
2. ANT207H1
3. 1.0 credit from ANT200Y1/ ARH100Y1, ANT203Y1
4. 0.5 credit from ANT204H1, ANT205H1, ANT208H1, ANT210H1, ANT215H1, ANT253H1

Upper Years:

5. 2.5 credits at the 300+ level from either Group A, B or C, or Subgroups C(i) or C(ii), including at least one 0.5 credit at the 400-level.
6. 1.0 additional credit from a Group other than that used to meet requirement #5

Note: ANT courses are those offered with the following prefixes: ANT, ARH, INS, JAL, JAA, JAR and JGA.

Group A: Archaeology

ANT200Y1/ ARH100Y1, ANT210H1, ANT215H1,
ANT299Y1, ANT311Y1, ANT315H1, ANT317H1,
ANT318H1, ANT319Y1, ANT320H1, ANT325H1,
ANT390H1, ANT406H1, ANT407H1, ANT408H1,
ANT409H1, ANT410H1, ANT411H1, ANT412H1,
ANT416H1, ANT419H1, ANT420H1, ANT437H1,
ANT491Y1, ANT491H1, ANT497Y1, ANT498H1,
ANT499H1, ARH205H1/ ARH305H1, ARH306Y1,
ARH309H1, ARH312Y1, ARH360H1, ARH361H1,
ARH361Y1, ARH440H1, ARH482H1, ARH494H1,
ARH495H1, MCS225Y1

Note: ANT390H1 may be placed in either Group A or B or C depending on the topic which will vary from year to year

Group B: Evolutionary

ANT203Y1, ANT208H1, ANT210H1, ANT299Y1,
ANT330Y1, ANT333Y1, ANT334H1/ ANT334Y1,
ANT335Y1, ANT336H1, ANT337H1, ANT338H1,
ANT390H1, ANT419H1, ANT430H1, ANT431H1,
ANT434H1, ANT435H1, ANT436H1, ANT437H1,
ANT438H1, ANT481H1, ANT491Y1, ANT491H1,
ANT497Y1, ANT498H1, ANT499H1

Note: ANT390H1 may be placed in either Group A or B or C depending on the topic which will vary from year to year.

Group C: Society, Culture, and Language

ANT204H1, ANT205H1, ANT207H1, ANT208H1, ANT210H1, ANT215H1, ANT299Y1, ANT324H1, ANT342H1, ANT343H1, ANT344H1, ANT345H1, ANT346H1, ANT347H1, ANT348H1, ANT352H1, ANT354H1, ANT356H1, ANT357H1, ANT358H1, ANT362H1, ANT364H1, ANT366H1, ANT370H1, ANT374H1, ANT376H1, ANT378H1, ANT380H1, ANT382H1, ANT384H1, ANT385H1, ANT386H1, ANT390H1, ANT426H1, ANT435H1, ANT441H1, ANT442H1, ANT446H1, ANT450H1, ANT456H1, ANT457H1, ANT459H1, ANT460H1, ANT462H1, ANT463H1, ANT464H1, ANT465H1, ANT473H1, ANT474H1, ANT475H1, ANT480H1, ANT484H1, ANT485H1, ANT486H1, ANT488H1, ANT490Y1, ANT491Y1, ANT491H1, ANT497Y1, ANT498H1, ANT499H1, JAA377H1, JAH391Y0, JAH391H1, JAR301H1, JNH350H1, AFR250Y1, NMC356H1, MCS225Y1

Note: ANT390H1 may be placed in either Group A or B or C depending on the topic which will vary from year to year.

Subgroup C (i): (Society, Culture and Language - Area)

ANT341H1, ANT455H1, ANT458H1, ANT472H1, ANT477H1, AFR298H1, CAR316H1, NMC241H1

Subgroup C (ii): (Society, Culture and Language – Linguistic)

ANT253H1, ANT329H1, ANT425H1, ANT483H1, ANT497Y1, ANT498H1, ANT499H1, JAL328H1, JAL355H1, JAL401H1, SLA380H1

Focus in Medical Anthropology (Major: General) - ASFOC1775A

This focus enables students in the Anthropology Major (General) ASMAJ1775 to identify courses pertaining to Medical Anthropology across the discipline's social science and science fields and receive formal acknowledgement for completing a suite of health-related anthropology courses.

Enrolment Requirements:

Enrolment in the Anthropology Major (General) is required.

Completion Requirements:

2.5 credits (total)

1. 0.5 credit from ANT205H1 or ANT208H1

2. 2.0 credit from: ANT345H1, ANT348H1, ANT357H1, ANT358H1, ANT382H1, ANT385H1, ANT435H1, ANT442H1, ANT446H1, ANT458H1, ANT460H1, ANT474H1, ANT488H1, JAR301H1.

Health related Anthropology Special Topics courses may be chosen when offered at the third or fourth year levels.

Anthropology Major (Evolutionary) (Science Program) - ASMAJ1510

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- ANT100Y1 (65%) or ANT203Y1 (65%)

Completion Requirements:

(6.5 credits, including at least 2.0 credits at the 300+ level, 0.5 credit of which must be at the 400-level)

First Year and/or Second Year:

1. BIO120H1
2. ANT100Y1 or BIO220H1. If BIO220H1 is taken, students must take an additional 0.5 credit in ANT
3. ANT203Y1

Upper Years:

4. 2.0 credits from ANT208H1, ANT333Y1, ANT334H1, ANT334Y1, ANT335Y1, ANT336H1
5. 1.5 additional credits from: Group B and/or ANT406H1, ANT415Y1, ARH312Y1
6. 0.5 credit at the 400-level from Group B

Note: ANT courses are those offered with the following prefixes: ANT, ARH, INS, JAL, JAR and JGA.

Group B: Evolutionary

ANT203Y1, ANT208H1, ANT210H1, ANT299Y1, ANT330Y1, ANT333Y1, ANT334H1, ANT334Y1, ANT335Y1, ANT336H1, ANT337H1, ANT338H1, ANT390H1, ANT419H1, ANT430H1, ANT431H1, ANT434H1, ANT435H1, ANT436H1, ANT437H1, ANT438H1, ANT481H1, ANT491Y1, ANT491H1, ANT497Y1, ANT498H1, ANT499H1

Note: ANT390H1 may not be available in Course Group B, depending on the topic, which will vary from year to year.

Anthropology Minor (General) (Arts Program) - ASMIN1775

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- ANT100Y1 (65%) or ANT200Y1/ ARH100Y1 (65%) or ANT203Y1 (65%) or ANT204H1 (65%) or ANT207H1 (65%)

Completion Requirements:

(4.0 credits including at least 1.0 credit at the 300-level)

First and/or Second Year:

1. ANT100Y1
2. 2.0 credits from ANT200Y1/ ARH100Y1, ANT203Y1, ANT204H1, ANT205H1, ANT207H1, ANT208H1, ANT210H1, ANT215H1, ANT253H1

Upper Years:

3. 1.0 credit at the 300+ level from either Group A, B, or C, or Subgroup C(i) or C(ii)

Note: ANT courses are those offered with the following prefixes: ANT, ARH, INS, JAA, JAL, JAR and JGA.

Group A: Archaeology

ANT200Y1/ ARH100Y1, ANT210H1, ANT215H1, ANT299Y1, ANT311Y1, ANT315H1, ANT317H1, ANT318H1, ANT319Y1, ANT320H1, ANT325H1, ANT390H1, ANT406H1, ANT407H1, ANT408H1, ANT409H1, ANT410H1, ANT411H1, ANT412H1, ANT416H1, ANT419H1, ANT420H1, ANT437H1, ANT491Y1, ANT491H1, ANT497Y1, ANT498H1, ANT499H1, ARH205H1/ ARH305H1, ARH306Y1, ARH309H1, ARH312Y1, ARH360H1, ARH361H1, ARH361Y1, ARH440H1, ARH482H1, ARH494H1, ARH495H1, MCS225Y1

Note: ANT390H1 may be placed in either Group A or B or C depending on the topic which will vary from year to year

Group B: Evolutionary

ANT203Y1, ANT208H1, ANT210H1, ANT299Y1, ANT330Y1, ANT333Y1, ANT334H1/ ANT334Y1, ANT335Y1, ANT336H1, ANT337H1, ANT338H1,

ANT390H1, ANT419H1, ANT430H1, ANT431H1, ANT434H1, ANT435H1, ANT436H1, ANT437H1, ANT438H1, ANT481H1, ANT491Y1, ANT491H1, ANT497Y1, ANT498H1, ANT499H1

Note: ANT390H1 may be placed in either Group A or B or C depending on the topic which will vary from year to year.

Group C: Society, Culture, and Language

ANT204H1, ANT205H1, ANT207H1, ANT208H1, ANT210H1, ANT215H1, ANT299Y1, ANT324H1, ANT342H1, ANT343H1, ANT344H1, ANT345H1, ANT346H1, ANT347H1, ANT348H1, ANT352H1, ANT354H1, ANT356H1, ANT357H1, ANT358H1, ANT362H1, ANT364H1, ANT366H1, ANT370H1, ANT374H1, ANT376H1, ANT378H1, ANT380H1, ANT382H1, ANT384H1, ANT385H1, ANT386H1, ANT390H1, ANT426H1, ANT435H1, ANT441H1, ANT442H1, ANT446H1, ANT450H1, ANT456H1, ANT457H1, ANT459H1, ANT460H1, ANT462H1, ANT463H1, ANT464H1, ANT465H1, ANT473H1, ANT474H1, ANT475H1, ANT480H1, ANT484H1, ANT485H1, ANT486H1, ANT488H1, ANT490Y1, ANT491Y1, ANT491H1, ANT497Y1, ANT498H1, ANT499H1, JAA377H1, JAH391Y0, JAH391H1, JAR301H1, JNH350H1, AFR250Y1, NMC356H1, MCS225Y1

Note: ANT390H1 may be placed in either Group A or B or C depending on the topic which will vary from year to year.

Subgroup C (i): (Society, Culture and Language - Area)

ANT341H1, ANT455H1, ANT458H1, ANT472H1, ANT477H1, AFR298H1, CAR316H1, NMC241H1

Subgroup C (ii): (Society, Culture and Language – Linguistic)

ANT253H1, ANT329H1, ANT425H1, ANT483H1, ANT497Y1, ANT498H1, ANT499H1, JAL328H1, JAL355H1, JAL401H1, SLA380H1

Note: Effective Fall 2021, courses associated with New College's African Studies and Caribbean Studies programs will have the new "AFR" and "CAR" designators respectively. In addition, courses associated with Victoria College's Material Culture and Semiotics program will have the new "MCS" designator.

Environmental Anthropology Minor (Arts Program) - ASMIN1291

Admission Requirements:

A program focused on understanding the diverse nature of interactions between humans and their environments,

both in the past and in modern global society. Consult the Undergraduate Office, Department of Anthropology (416-978-6414).

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300+ level)

1. ANT100Y1/(ENV221H1 and ENV222H1/ GGR223H1)
2. ANT200Y1/ ARH100Y1/ (ANT204H1 and ANT207H1/0.5 credit 300-level Social Anthropology course from Anthropology Group C, or Subgroup C(i), C(ii))
3. 2.0 credits from: ANT315H1, ANT336H1, ANT346H1, ANT364H1, ANT366H1, ANT374H1, ANT376H1, ANT409H1, ANT410H1, ANT415Y1, ANT420H1, ANT430H1, ANT450H1, INS250H1, INS402H1

Note: ANT courses are those offered with the following prefixes: ANT, ARH, INS, JAA, JAL, JAH, JAR and JGA.

Group C: Society, Culture, and Language

ANT204H1, ANT205H1, ANT207H1, ANT208H1,
ANT210H1, ANT215H1, ANT299Y1, ANT322H1,
ANT324H1, ANT342H1, ANT343H1, ANT344H1,
ANT345H1, ANT346H1, ANT347H1, ANT348H1,
ANT352H1, ANT356H1, ANT357H1, ANT358H1,
ANT362H1, ANT364H1, ANT366H1, ANT370H1,
ANT372H1, ANT374H1, ANT376H1, ANT378H1,
ANT380H1, ANT382H1, ANT384H1, ANT385H1,
ANT386H1, ANT390H1, ANT426H1, ANT435H1,
ANT441H1, ANT450H1, ANT456H1, ANT457H1,
ANT459H1, ANT460H1, ANT462H1, ANT463H1,
ANT464H1, ANT465H1, ANT473H1, ANT474H1,
ANT475H1, ANT480H1, ANT484H1, ANT485H1,
ANT486H1, ANT488H1, ANT490Y1, ANT491Y1,
ANT491H1, ANT497Y1, ANT498H1, ANT499H1,
JAA377H1, JAH391Y0, JAH391H1, JAR301H1,
JNH350H1, AFR250Y1, NMC356H1, MCS225Y1

Note: ANT390H1 may be placed in a different Course Group depending on the topic, which will vary from year to year.

Subgroup C (i): (Society, Culture and Language - Area)

ANT327H1, ANT340H1, ANT341H1, ANT455H1,
ANT458H1, ANT472H1, ANT477H1, AFR298H1,
CAR316H1, NMC241H1

Subgroup C (ii): (Society, Culture and Language – Linguistic)

ANT253H1, ANT329H1, ANT425H1, ANT483H1,
ANT497Y1, ANT498H1, ANT499H1, JAL328H1,
JAL355H1, JAL401H1, SLA380H1

Note: Effective Fall 2021, courses associated with New College's African Studies and Caribbean Studies programs will have the new "AFR" and "CAR" designators respectively. In addition, courses associated with Victoria College's Material Culture and Semiotics program will have the new "MCS" designator.

Medical Anthropology Minor (Arts Program) - ASMIN1778

Medical Anthropology is a subfield within Anthropology that draws on both socio-cultural and evolutionary anthropology to examine health inequalities, disease vulnerability, illness discourses and meanings, and therapeutic systems around the world. Training in medical anthropology is excellent preparation for graduate or professional education in public health, medicine, nursing, and other allied health careers.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 or 1.5 credits at the 300+ level)

First Year:

1. ANT100Y1

Second Year:

2. ANT205H1 and ANT208H1
3. 0.5 credit from: ANT204H1, ANT207H1, ANT203Y1
 (Students who want to focus on evolutionary/biological approaches to medical anthropology should take ANT203Y1).

Upper Years:

4. Up to 1.5 credits from the following courses, up to a total of 4.0 credits to complete the minor program. Students who complete ANT203Y1 need to take 1.0 credit, and students who take ANT204H1 or ANT207H1 need to take 1.5 credits, from the following: ANT334H1/ANT334Y1, ANT336H1, ANT337H1, ANT338H1, ANT345H1, ANT348H1, ANT357H1, ANT358H1, JAR301H1, ANT382H1, ANT385H1, ANT434H1, ANT435H1, ANT442H1, ANT446H1, ANT458H1, ANT460H1, ANT474H1, ANT488H1.

Health-related Anthropology Special Topics courses at the 300 or 400 level, and health-related Independent Research courses at the 400-level, will count towards program requirements

Anthropology Courses

ANT100Y1 - Introduction to Anthropology

Hours: 48L/12T

This course examines human life from various anthropological perspectives: Evolutionary Anthropology, the study of the evolution of humans and non-human primates; Archaeology, the study of the material evidence of human activities in the past; Linguistic Anthropology, the study of how language transmits and transforms culture; and Sociocultural Anthropology, the study of political, religious, economic, and cultural organization in human societies.

Breadth Requirements: Living Things and Their Environment (4), Society and its Institutions (3)

ARH100Y1 - Introduction to Archaeology

Previous Course Number: ANT200Y1

Hours: 48L/24T

Archaeology entails an active process of uncovering evidence for and learning about aspects of the human past. The goal of this course is to involve students in current archaeological practice, including its socio-political context, and the global structure of the human experience from human evolution through cities and empires. Students will critically engage with ideas both within and outside the discipline on working with descendant communities, stewardship, ethical practice, and the relevance of archaeology to contemporary issues from climate change to social inequality. This course can serve as an introduction for students planning to pursue an archaeology program or as an opportunity to engage with a fascinating topic that is relevant to disciplines ranging from science to humanities.

Exclusion: ANT200Y1

Breadth Requirements: Society and its Institutions (3)

ANT192H1 - Murder and Other Deathly Crimes: Anthropological Perspectives

Hours: 24S

Anthropology has much to say about death. There is foundational literature on sacrifice, suicide, and the rites surrounding the end of life. Anthropology also has a lot to say about violence: war, conflict, revolution. But at the

nexus of death and violence lies murder, a culturally and socially salient phenomenon that garners less scholarly attention. This seminar will explore what constitutes murder in different cultural and historical contexts, by reading across anthropology, cultural studies, and film studies. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

ANT193H1 - Making, Using, and Interpreting Stone Tools

Hours: 6L/8P/10S

Stone tools are the earliest and longest-lasting record of human technology. This course explores interpreting stone tools from a multidisciplinary perspective. In making, using, and studying stone tools, students will learn how archaeologists form hypotheses and design experiments to understand humans and their technologies in the past. This course presents research that investigate changes in human ancestors' cognition and livelihoods through the contributions of other disciplines in life and social sciences to the study of stone tools. The course introduces major stone tool discoveries and critically engages with current research through the development of new ideas for research projects. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT194H1 - Human-nonhuman relations through Manga & Anime

Hours: 24S

Anthropology has examined various ways human beings imagine and engage with non-human beings in their everyday lives in particular social and cultural contexts. By using manga and anime, specific popular cultural expressive modes developed in Japan, this course examines social and cultural aspects of human relationship with other beings, including but not restricted to animals, plants, microbes, technological objects and spirits from anthropological perspectives. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

ANT195H1 - Speculative Fiction and Social Reality

Hours: 24S

How do the imagined worlds of speculative fiction reflect, and reflect upon, the real worlds of their authors and audiences? And on the other hand, how can works of speculative fiction have real-world impacts? Is speculative fiction different, in either of these respects, than other genres of narrative? This course explores a variety of works of speculative fiction from the perspective of an anthropological interest in ideas, imaginations, and narratives in relation to social life. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT197H1 - Representations of Intellectuals

Hours: 24S

This course is a First-Year Foundation Seminar and provides an opportunity for exploration of different topics and themes. The course explores ideas of intellectuals who carved transformative theories during war times or under repressive regimes in the twentieth century. Intellectuals featured in the course include Rosa Luxemburg, Frantz Fanon, Walter Benjamin, Lu Xin, Audre Lorde. Further, it would examine cultural representations of them, such as, graphic novels, fictions, essays, films and videos on them or relatable to their ideas. For example, it would assign reading of *Red Rosa*, a graphic novel of Luxemburg together with her own work *Theory of Imperialism*. Or it would juxtapose Lorde's classic, *Sister Outsider*, with Octavia Butler's science fiction, *Parable of the Sower*. First-Year Foundation Seminars are restricted to first-year students and do not normally contribute towards program completion. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ANT199H1 - Living on the Water in Toronto

Hours: 24S

What do the Great Lakes mean to people living here? Especially Indigenous people? When and how do people care about the Great Lakes? Poems, stories, social science offer perspectives on the water from anthropology and arts. Field trips including paddling on a river, hiking;

talks with local activists and artists. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ANT200Y1 - Introduction to Archaeology

Hours: 48L/24T

How did art and technology develop in the course of human evolution? What led to the development of agriculture and settled village life? How did social inequality and urbanism emerge? This course takes a global perspective to explore the archaeological evidence that sheds light on these questions and other aspects of prehistory and early history. Students will engage with the challenges posed by new discoveries and also with recent developments in archaeological method and theory. The goal of the course is to involve students with the current state of archaeological research and some of the major issues archaeologists work to address.

Recommended Preparation: ANT100Y1

Breadth Requirements: Society and its Institutions (3)

ANT203Y1 - The Nature of Humans

Hours: 48L/24P

This course examines where humans fit in the fabric of the natural world. It explores the history of ideas about humans in nature, humans as primates, the story of human evolution and modern human physical and genetic diversity.

Recommended Preparation: ANT100Y1/ BIO120H1, BIO220H1

Breadth Requirements: Living Things and Their Environment (4)

ANT204H1 - Social Cultural Anthropology and Global Issues

Previous Course Number: ANT204Y1

Hours: 24L/12T

A course focused on recent anthropological scholarship that seeks to understand and explain the transformation of contemporary societies and cultures. Topics may include some of the following: new patterns of global inequality, war and neo-colonialism, health and globalization, social justice and indigeneity, religious fundamentalism, gender inequalities, biotechnologies and society etc.

Exclusion: [ANT204Y1](#)

Recommended Preparation: [ANT100Y1](#)

Breadth Requirements: Society and its Institutions (3)

ARH205H1 - Archaeological Inference

Previous Course Number: ARH305H1

Hours: 24L/6P/6S

This course explores ways that archaeologists investigate research questions and interpret archaeological evidence. It introduces some of the main conceptual tools that archaeologists use to make inferences, including analogy, ethnoarchaeology, and experimental archaeology. It also uses practical exercises to help students understand the basic logic of some of the methods that archaeologists use in their research, such as dating methods and identification of spatial patterns. This prepares students for more advanced courses in archaeology.

Prerequisite: [ANT200Y1](#)/ [ARH100Y1](#)

Exclusion: [ARH305H1](#)

Recommended Preparation: [ANT100Y1](#)

Breadth Requirements: Society and its Institutions (3)

ANT205H1 - Medical Anthropology: Sociocultural Perspectives on Illness, Medicine and Care

Hours: 24L/11T

Introduction to medical anthropology with a focus on questions, methods, and insights from sociocultural anthropology. Explores the relationships among culture, society, and medicine with special attention to power, inequality, and globalization. Examples from many parts of the world, addressing biomedicine as well as other healing systems.

Recommended Preparation: [ANT100Y1](#), [ANT207H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT207H1 - Core Concepts in Social and Cultural Anthropology

Hours: 24L/12T

Society, culture, kinship, exchange, community, identity, politics, belief: these and other core concepts are explored in this course, which lays the foundation for advanced courses in social and cultural anthropology.

Breadth Requirements: Society and its Institutions (3)

ANT208H1 - Medical Anthropology: an Evolutionary Perspective on Human Health

Hours: 24L/10T

Introduction to applied evolutionary medical anthropology. It explores evidence for the evolution of human vulnerability to disease across the life cycle (conception to death) and implications for health of contemporary populations in behavioral ecological, cross-cultural, health and healing systems, historical trauma, intersectionality, and climate change, lenses.

Recommended Preparation: [ANT100Y1](#)/ [BIO120H1](#)

Breadth Requirements: Living Things and Their Environment (4)

ANT210H1 - Anthropologists and Indigenous Peoples in North America

Previous Course Number: ANT388H1

Hours: 24L/12T

This course provides a rigorous introduction to historical and contemporary relations between Indigenous peoples and anthropologists, spanning archaeology, biological/ evolutionary anthropology, and socio-cultural & linguistic fields. The course centers Indigenous experience, critique, and scholarship, and fosters students' critical thinking skills as applied to the ethics and politics of anthropological research, past and present. The course is organised into three modules:

1. Introduction to Indigenous peoples' critiques and concerns regarding anthropology
2. Understanding historical context of these issues
3. In-depth discussion of current issues, oriented to emergent and possible future transformations in anthropology's relations with Indigenous peoples.

Exclusion: [ANT388H1](#)

Recommended Preparation: [ANT100Y1](#)/ [ANT241H5](#)/ [INS201Y1](#)

Breadth Requirements: Society and its Institutions (3)

ANT215H1 - Fight the Power!: A Global History of Resistance and Revolution

Hours: 24L

This course examines the efforts of Indigenous communities in North America to subvert, resist, and

persist in the face of hegemonic power. Over the course of the semester, students will develop a critical understanding of the inner workings of power and the impact of these structures on the contemporary world. In examining the power-resistance dynamic, this course takes a cross-cultural comparative approach that situates North American case studies in relation to examples of resistance from Africa, Latin America, and the Caribbean. In examining these case studies, students are asked to engage with a variety of primary sources including songs, speeches, literary texts, and material culture.

Prerequisite: 0.5 credit in BR=1/ 2/ 3

Recommended Preparation: ANT100Y1

Breadth Requirements: Society and its Institutions (3)

ANT253H1 - Language & Society

Hours: 24L/12T

This course introduces linguistic analysis with a view towards its application to the study of the relation between culture and social structure. The interplay of pronunciation, grammar, semantics, and discourse with rituals, ideologies, and constructions of social meaning and worldview are discussed in tandem with the traditional branches of linguistic analysis: phonology, morphology, grammar, syntax, and semantics. The objective of the course is to provide a broad framework for understanding the role of language in society.

Exclusion: JAL253H1

Recommended Preparation: ANT100Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

JAR301H1 - Plagues and Peoples: From Divine Intervention to Public Health

Hours: 24L/12T

Infectious diseases have afflicted human societies throughout the history of our species. How are diseases shaped by the societies in which they spread, and how do they change culture and politics in turn? This course

introduces perspectives from medical anthropology and religious studies to analyze the intersection of cultural, religious and scientific narratives when people confront plagues. We focus on historical and contemporary examples, such as the Spanish flu and COVID-19, giving students the tools to understand how cultural institutions, religious worldviews, and public health epidemiology shape living and dying during a pandemic.

Prerequisite: At least 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

ARH306Y1 - Archaeological Field Methods

Hours: 12L/61P

Intensive instruction in archaeological field methods and acquisition of field skills, including archaeological search and survey, site mapping, laying out excavation grids, use of theodolites, total station, and GPS, stratigraphic excavation, stratigraphy, field recording, screening sediment, Ontario license and reporting requirements. Normally this course would take place on campus in the summer. This course has a mandatory Lab Materials Fee of \$25 to cover non-reusable materials. The fee will be included on the student's ACORN invoice. The details and application form are posted on the following website: <https://www.anthropology.utoronto.ca/undergraduate/curriculum-course-information/field-schools-and-research-opportunities>. The application form should be submitted at least one week prior to the beginning of classes.

Prerequisite: ANT200Y1/ ARH100Y1/ (NMC260H1, NMC262H1)/ NMC261Y0

ARH309H1 - Archaeology, Ethics, and the Public

Hours: 24L

An analysis of ethics in contemporary archaeology that covers reburial and repatriation, interpretation of the archaeological record in the context of historically oppressed groups, ethnic minorities, and non-western societies, the ethics of collecting and managing cultural property, relationships with the media, the debates surrounding looting, and other issues.

Prerequisite: ANT200Y1/ ARH100Y1

Breadth Requirements: Society and its Institutions (3)

ANT311Y0 - Archaeological Fieldwork

ANT311Y1 - Archaeological Fieldwork

Practical field training through six weeks of excavation on an archaeological site. Basic principles of artifact handling and classification. (Offered only in Summer Session) Not eligible for CR/NCR option.

Prerequisite: [ANT200Y1](#)/ [ARH100Y1](#)

ARH312Y1 - Archaeological Laboratory

Hours: 28L/44P

Techniques for making archaeological data meaningful after excavation or survey. Archaeological measurements, compilation of data, database design, archaeological systematics, and sampling theory in the context of lithics, pottery, floral, faunal and other archaeological remains.

Prerequisite: [ANT200Y1](#)/ [ARH100Y1](#), [ARH205H1](#)/ [ARH305H1](#), and one of [EEB225H1](#)/ [GGR270H1](#)*/ [STA220H1](#)/ [STA221H1](#)/ [STA257H1](#)/ [STA261H1](#)/ [ANTC35H3](#)** Note: *Geography pre- or co-requisites waived for Anthropology and Archaeology students; ** to be taken at the Scarborough Campus
Breadth Requirements: The Physical and Mathematical Universes (5)

ANT315H1 - Arctic Archaeology

Hours: 24L

Archaeology and ethnohistory of Arctic cultures. Emphasis is on variation in social organization, settlement pattern, economy, ideology, and interaction with the expanding European world-system.

Prerequisite: [ANT200Y1](#)/ [ARH100Y1](#)
Breadth Requirements: Society and its Institutions (3)

ANT317H1 - Archaeology of Eastern North America

Hours: 24L

This course examines the precontact and early contact period culture history of eastern North America, including Ontario, through archaeological evidence. Topics covered include the earliest peopling of the region at the end of the Ice Age, diversity of hunter-gatherer societies, introduction

of agriculture, and the development of the dynamic First Nations societies who eventually met and interacted with Europeans.

Prerequisite: [ANT200Y1](#)/ [ARH100Y1](#)
Breadth Requirements: Society and its Institutions (3)

ANT318H1 - The Preindustrial City and Urban Social Theory

Hours: 24L

This course offers a comparative examination of the rise and organization of ancient cities through a detailed investigation of urban social theory. We will explore competing anthropological interpretations of urban process while probing the political, ideological, and economic structures of the world's earliest cities. Students will have the opportunity to consider a broad range of subjects, including mechanisms of city genesis; urban-rural relations; the intersections of city and state; and historical variation in urban landscapes, ideologies, and political economies.

Prerequisite: [ANT200Y1](#)/ [ARH100Y1](#)
Breadth Requirements: Society and its Institutions (3)

ANT319Y1 - Archaeology of North America

Hours: 48L

This course examines human prehistory in North America, North of Mexico, from the time of earliest occupation to European contact. Special topics include Paleoindian and Archaic adaptations, the rise of complex hunter-gatherers, origins of farming and the evolution of complex chiefdoms.

Prerequisite: [ANT200Y1](#)/ [ARH100Y1](#)
Breadth Requirements: Society and its Institutions (3)

ANT320H1 - Ancient Cultures of the Andes

Hours: 24L

This class offers intensive study of the archaeology and culture history of the Andean region prior to the Spanish conquest. The complexity and distinctiveness of Andean social organization, political institutions, religious ideologies, and economic practices have long fascinated anthropologists. Ultimately, the course will explore Andean cultures over a 10,000 year period, highlighting key debates, current research projects, and innovative

theoretical approaches shaping contemporary archeological scholarship in South America and beyond.

Prerequisite: ANT100Y1/ ANT200Y1/ ARH100Y1

Breadth Requirements: Society and its Institutions (3)

ANT324H1 - Tourism & Globalization

Hours: 24L

The course uses tourism as a lens to examine global connections. Particular focus will be on the politics of cultural encounters. Drawing examples from diverse ethnographic materials, the course explores how different visions of the world come into contact, negotiated and transformed, and how tourist encounters shape peoples everyday lives.

Prerequisite: ANT204H1 or ANT207H1

Breadth Requirements: Society and its Institutions (3)

ANT325H1 - Indigenous Archaeologies

Hours: 24S

This course introduces students to the field of Indigenous archaeology. Indigenous archaeology is a form of critical praxis that encompasses archaeological research conducted for, with, and by Indigenous peoples. Throughout the class we explore the colonial origins of archaeology, Indigenous activism and its impacts on the discipline of anthropology, ongoing efforts to decolonize and indigenize cultural heritage, and community-based research methods. Students will all also be introduced to new theoretical perspectives emerging out of the intersection of Anthropology and Indigenous Studies including survivance, refusal, futurity, and resurgence.

Prerequisite: 1 course from ANT200Y1/ ARH205H1/ ANT210H1/ ANT215H1/ INS201Y1/ INS200H1

Breadth Requirements: Society and its Institutions (3)

JAL328H1 - Writing Systems

Hours: 36L

Introduction to writing systems; their historical development, their relationship to language, and their role in culture and society. (Given by the Departments of Anthropology and Linguistics) (Not offered every year)

Prerequisite: ANT100Y1/ LIN101H1/ LIN200H1

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT329H1 - Language & Power Structure

Hours: 24L/4T

The role of language and symbolism in the representation and manipulation of ideology and power structure. Case materials drawn from the study of verbal arts, gender, law, advertising, and politics with a focus on North America.

Prerequisite: ANT204H1 or ANT207H1 or ANT253H1 or MCS223H1 or 0.5 credit at the 200+ level in SOC or POL or LIN or Women's Studies

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT330Y1 - Paleoanthropology Field School

Hours: 24L/78P

This course provides background in the practical and theoretical aspects of fieldwork in Paleoanthropology. Students are trained in the treatment and analysis of fossil vertebrates, plant macro- and micro-fossils and sediments. Excursions to paleoanthropological localities of Homo erectus and Homo sapiens, and excavation at a hominoid site. (Joint undergraduate-graduate) Not eligible for CR/NCR option. Additional fees of up to \$2500 for field trip costs will apply. The details and the application form are posted on the following website:

<https://www.anthropology.utoronto.ca/undergraduate/curriculum-course-information/field-schools-and-research-opportunities>. The application form should be submitted by the deadlines indicated on the website.

Prerequisite: ANT203Y1

Breadth Requirements: Living Things and Their Environment (4)

ANT333Y1 - Living Primate Adaptations

Hours: 48L/24P

A survey of living primates, this lab-oriented course describes and compares the diverse behavioural and anatomical adaptations that are characteristic to this order of mammals. The understanding of the biological diversity and evolutionary history of primates is important for further understanding of human adaptation and evolution.

Prerequisite: ANT203Y1

Exclusion: ANT333H1

Recommended Preparation: ANT334Y1; BIO120H1, BIO220H1

Breadth Requirements: Living Things and Their Environment (4)

ANT334Y1 - Human Skeletal Biology

Previous Course Number: ANT334H1

Hours: 48L/48P

Exploration of the development and maintenance of the human skeleton and dentition, with emphasis on application to archaeological, forensic and biomedical sciences.

Prerequisite: ANT203Y1

Exclusion: ANT334H1

Breadth Requirements: Living Things and Their Environment (4)

ANT335Y1 - Human Evolution

Hours: 24L/36P

This course takes the student on a survey of human evolution from our ape ancestors to modern humans. Students will learn to identify skulls, teeth and limb bones, explore hundreds of casts, and learn how researchers understand human origins and trends in the development of human anatomy and behavior.

Prerequisite: ANT203Y1

Exclusion: ANT332H5, ANT333H5, ANT434H5, ANTC17H3

Breadth Requirements: Living Things and Their Environment (4)

ANT336H1 - Evolutionary Anthropology Theory

Hours: 24L

This course will explore the foundational and leading concepts in evolutionary anthropology. Historically important readings and current concepts will be presented and discussed in the context of research, especially in areas of human population biology, ecology and the evolution of *Homo sapiens*. Topics will include behavioral ecology and life history theory, as well as a critique of the adaptationist program.

Prerequisite: ANT203Y1

Breadth Requirements: Living Things and Their Environment (4)

ANT337H1 - Human Movement

Hours: 24L/24P

This course will investigate human movement and physical activity patterns through the lens of evolutionary anthropology. The evolution of hominin physical behaviours, such as bipedalism and tool use, will be explored alongside the morphological traits associated with these behaviours. We will also examine social and cultural factors that may moderate physical activities among diverse human groups, including subsistence strategy variation and contemporary views on activity and exercise.

Prerequisite: ANT203Y1

Breadth Requirements: Living Things and Their Environment (4)

ANT338H1 - Molecular Anthropology and Human Evolution

Hours: 24L/12P

Molecular anthropology is an interdisciplinary field combining biology, genetics, evolution and anthropology. In this class, we will explore the use of DNA for the study of past migrations and admixture patterns, the evolution of pathogens, plant and animal domestication and especially the relationships between recent and archaic humans.

Prerequisite: ANT203Y1

Breadth Requirements: Living Things and Their Environment (4)

ANT341H1 - China in Transition

Hours: 24L

This course offers a general introduction to transformations in modern and contemporary China from an anthropological perspective. This course covers major aspects of Chinese culture, history, and society in a global context.

Prerequisite: ANT207H1

Breadth Requirements: Society and its Institutions (3)

ANT342H1 - Anthropology of Race and Racism

Hours: 24L

This course will examine the role of anthropology in the development, maintenance, as well as critique, of race as a concept and racism as a social, cultural, and structural reality. Topics include: the relationships among anthropology, race, and colonialism; the constructions of race as a social, cultural, and biological concept; ethnographic engagements with whiteness and white supremacy; and the future of anthropology as an anti-racist and anti-colonialist enterprise.

Prerequisite: [ANT207H1](#)

Recommended Preparation: [ANT204H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT343H1 - Social Anthropology of Gender

Hours: 24L

Gender concerns the ways that groups define and experience what it is to be male, female, or a gender identity in-between or outside of that binary, and in all societies the boundaries of gender categories are both policed and resisted. In this course we examine how gender is made materially, discursively, and through intersections with other structures of inequality (e.g. race, sexuality, class, etc.).

Prerequisite: [ANT207H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT344H1 - Political Anthropology

Hours: 24L

This course explores the conceptual and methodological tools anthropologists employ to study the ways social groups enact, resist, and transform social relations that involve the production and distribution of power. It studies how anthropologists theorize politics in relation to power, authority, coercion, and consent. Topics explored in this class include political cultures in state and statelessness societies, political affect and the politics of everyday life, hegemony and resistance, governmentality and biopolitics, violence and militarization, social movements and citizenship, and the difficulties of anthropological research in conflict zones.

Prerequisite: [ANT204H1](#) or [ANT207H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT345H1 - Global Health: Anthropological Perspectives

Hours: 24L

This course examines medical anthropology's contributions to, and critiques of, global health policies and programs. Topics covered include: colonialism and health, the political ecology of disease, indigenous constructions of illness and healing, medical pluralism, the politics of primary health care, population policies, reproductive health, and AIDS.

Prerequisite: [ANT205H1](#) or [ANT207H1](#) or permission of the instructor

Recommended Preparation: [ANT348H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT346H1 - Anthropology of Food

Hours: 24L

Social anthropological perspective on the nature and meaning of food production, culinary cultures, industrial food, food as metaphor, and famine and hunger.

Prerequisite: [ANT204H1](#) or [ANT207H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT347H1 - Metropolis: Global Cities

Hours: 24L

The role of culture, cultural diversity, space and performance in urban institutions and settings. The cultural context and consequence of urbanization.

Prerequisite: [ANT207H1](#)

Exclusion: [ANT347Y1](#)

Breadth Requirements: Society and its Institutions (3)

ANT348H1 - Medical Anthropology: Health, Power and Politics

Hours: 24L/5T

This course deepens students' understandings of health and illness as social, cultural, political and historical phenomena. Drawing on theories and approaches from social-cultural anthropology, students will develop skills in critical analysis of experiences and meanings of healing and illness in particular contexts, with a focus on anthropological critique of dominant health policies, discourses, technologies and practices.

Prerequisite: [ANT204H1](#) or [ANT205H1](#) or [ANT207H1](#) or permission of the instructor. (Note: [ANT208H1](#) is not accepted preparation for this course.)

Breadth Requirements: Society and its Institutions (3)

ANT352H1 - Anthropology of Life and Death

Hours: 24L

What might it mean to think of death as inside of life, as opposed to at the end of it? This class examines Anthropological approaches to understanding life and death in our contemporary moment, one marked by widespread illness, war, policing, suicide, accident, and further loss. How do we go on living surrounded by death every day? Why are certain deaths valued above others? We will examine a range of related themes including funerary rituals, grief and mourning, violence and killing, illness and ageing, and ghosts and the afterlife.

Prerequisite: ANT204H1/ ANT207H1

Breadth Requirements: Society and its Institutions (3)

ANT354H1 - Right-Wing Nationalisms

Hours: 24L

Anthropological and other approaches to right-wing nationalism, populism, illiberalism, and “democratic backsliding,” in specific parts of the world and across continents. Economic and geopolitical sources of right-wing nationalist ideas and their patterns of transmission. International cooperation among right-wing nationalists. White supremacism. Conspiracy theories. Connections between extreme and mainstream forms of illiberal nationalism.

Prerequisite: 0.5 credit of any 200-level course in ANT, GGR, HIS, POL, or SOC

Recommended Preparation: ANT204H1

Breadth Requirements: Society and its Institutions (3)

JAL355H1 - Language and Gender

Hours: 24L

An introduction to some of the principal questions of feminist theory, as viewed from sociolinguistics. Topics include: socialization into gendered discourse patterns, cultural and ethnic differences in gendered interactions; the role of language and gender in legal, medical and labour settings; multilingualism, migration, imperialism and nationalism; sexuality, desire and queer linguistics, language, gender and globalization.

Prerequisite: 1.0 credit at the 200-level in LIN/ANT/JAL/SOC/WGS

Recommended Preparation: ANT204H1/ ANT253H1/ SOC200H1/ SOC214H1

Breadth Requirements: Society and its Institutions (3)

ANT356H1 - Anthropology of Religion

Hours: 24L

This course introduces selective anthropological and ethnographic rendering of religion and theology; matter, magic and the miraculous; religion and media. It also engages with some political understandings of religious affects; the religious in movement; mystics and relics; religious practices and their entanglements in colonial histories.

Prerequisite: ANT207H1

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT357H1 - Social Worlds of Medicine and Care

Hours: 24L

Presents anthropological perspectives on provision of healthcare as a complex social and cultural phenomenon. Examines hierarchies and division of labour among health care providers, and how social groups come to occupy particular positions. Considers how knowledge and skills are gained through formal training and/or lived experience, how they are recognized and valued, and may become sources of identity. Examines local variations within biomedicine as practiced in different settings around the world.

Prerequisite: ANT205H1

Breadth Requirements: Society and its Institutions (3)

ANT358H1 - Medical Anthropology and Social Justice

Hours: 24L

It is widely acknowledged that sharp disparities in disease burden and access to medical care characterize global patterns in health. These disparities affect the life chances of much of the world's population, based on class position, gender, and geographical region.

Prerequisite: ANT204H1 or ANT205H1 or ANT207H1

Breadth Requirements: Society and its Institutions (3)

ARH360H1 - Prehistory of the Near East

Hours: 24L

From earliest times through the rise of complex hunter-gatherers, and the food producing revolution to politically complex societies in Southwest Asia.

Prerequisite: ANT200Y1/ ARH100Y1/ (NMC260H1, NMC262H1)

Breadth Requirements: Society and its Institutions (3)

ARH361H1 - Field Archaeology

Opportunity for students participating in non-degree credit archaeological digs to submit reports, field notes and term papers for degree credit. Not eligible for CR/NCR option. Instructions on how to obtain an application form are posted on the following website:
<https://www.anthropology.utoronto.ca/undergraduate>. The application form should be submitted at least one week prior to the beginning of classes.

Prerequisite: Permission of Undergraduate Co-ordinator and Supervisor

ANT362H1 - Sports and Play

Hours: 24L

We tend to think of sports as unserious. This course shows that much serious cultural work is conducted through sports, but also that sports are indeed not always serious. This anthropology of sports engages with sports as both work and play, considering issues like gender, bodies, competition, and pleasure.

Prerequisite: ANT204H1 or ANT207H1

Breadth Requirements: Creative and Cultural Representations (1)

ANT364H1 - Advocating Environmental and Climate Justice

Hours: 24L

This course is designed for students eager to participate in, and reflect on, on-going advocacy on climate and environmental justice. Students will be placed, either as individuals, in partners, or in teams, with a government, non-profit or community advocacy group to collaboratively address a specific problem or need of the organization. In classroom discussions, and in assignments students will have an opportunity to reflect critically on their experiences, explore social and ethical issues, and integrate placements with course readings in ways that mobilize or perhaps challenge academic knowledge. Assignments will integrate practice in a range of forms of expression (for instance personal story, policy brief,

podcast, interview, news release, or blog) to support the development of the range of expressive skills needed to support working for change. The application form is posted on the following website:
<https://www.anthropology.utoronto.ca/undergraduate> The application form should be submitted by the deadline indicated on the website.

Prerequisite: ANT204H1/ ANT207H1/ ANT215H1.

Students who do not meet the prerequisite are encouraged to contact the Department.

Breadth Requirements: Society and its Institutions (3)

Course Experience: Partnership-Based Experience

ANT366H1 - Anthropology of Activism and Social Justice

Hours: 24L

Explores how anthropologists have traditionally studied social movements and how new social movements have challenged anthropologists to rethink some of their ethnographic methods and approaches. Some specific movements covered include those related to indigenous rights, environmentalism, refugees, gay and lesbian issues, biotechnology, new religions, and globalization.

Prerequisite: ANT207H1

Breadth Requirements: Society and its Institutions (3)

ANT370H1 - Introduction to Social Anthropological Theory

Hours: 24P

An in-depth critical review of foundational ideas in the development of the practice of Anthropology. Topics may include questioning fieldwork, origins and legacies of functionalism, cultural materialism, politics of culture, power and political economy, globalization and post modernism, gender and post-structuralism.

Prerequisite: ANT207H1

Breadth Requirements: Society and its Institutions (3)

ANT374H1 - Rethinking Development, or the Improvement of the World

Hours: 36L

Development, or deliberate intervention to improve the lives of people deemed to be lacking, or left behind, has shaped the modern world for at least a century. Drawing on historical and ethnographic studies, this course

examines the trajectory of development as a concept and practice, and traces its effects.

Prerequisite: [ANT207H1](#) or permission of the instructor

Breadth Requirements: Society and its Institutions (3)

ANT376H1 - Anthropology of Animals

Hours: 24L

The relationship between humans and other animals is one of the most hotly debated topics of our times. Through key classic and contemporary writings, this course introduces students to the interdisciplinary field of animal studies, and explores how anthropologists and other theorists have critically engaged in debates about animal and human distinctions.

Prerequisite: [ANT204H1](#) or [ANT207H1](#)

Breadth Requirements: Society and its Institutions (3)

JAA377H1 - Black Radical Theory from the Global South: Anthropological Perspectives

Hours: 24L

This course will survey the works of Black theorists and anthropologists from the Global South, who are shaping current debates within and beyond the discipline of Anthropology, concerning colonialism and decolonization, Marxism, indigeneity, political economy, Black radical thought, queer theory and decolonial feminism. Students will look at how these works challenge the "Northern Academy's monoliteracy" (Musila), politics of knowledge production and construction of the Global South as primarily a site of fieldwork and research extraction. Authors will include Sylvia Tamale, Wangui Kimari, Sabelo Ndlovu-Matsheni, Ochy Curiel, Keguro Macharia, Beatriz Nascimento, Michel-Rolph Trouillot and Abdelghaffar Ahmed.

Prerequisite: [ANT204H1](#)/ [ANT207H1](#)/ [ANT215H1](#)/
[AFR150Y1](#)/ [AFR290H1](#)/ [AFR298H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT378H1 - Gift, Money, and Finance

Hours: 24L

This course introduces dialogue between anthropological literature and other disciplinary studies in regards to the economy and culture of gift and money transaction as a key aspect of human society. Studying the history of gift and money economy from agricultural societies and

diverse developments of finance market culture in recent era through various perspectives (e.g., ethnographic, sociological, politico-economic, and historical views), this course aims to train students developing a critical understanding of capitalism.

Prerequisite: [ANT204H1](#) or [ANT207H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT380H1 - Craft of Social/Cultural Anthropology

Hours: 36S

This course introduces students to the skills they need to conduct ethnographic research, in particular, participant observation, in-depth interview, as well as writing fieldnotes and research proposals. The emphasis is on interactive, workshop-style small group learning.

Prerequisite: [ANT207H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT382H1 - Special Topics in Biocultural Medical Anthropology

Hours: 24L

This course combines lecture and discussion, and focuses on a topic in medical anthropology from a biocultural perspective. Topics change from year to year. See Anthropology website for more details.

Prerequisite: [ANT208H1](#)

Recommended Preparation: [ANT203Y1](#)/ [ANT205H1](#)

Breadth Requirements: Living Things and Their Environment (4)

ANT384H1 - Special Topics in Society, Culture and Language

Hours: 24L

This lecture-format course focuses on a relatively broad topic in socio-cultural and/or linguistic anthropology. Topics change from year to year. For the 2015-16 academic year, the title of this course is "Nature, Culture, Human".

Prerequisite: [ANT207H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT385H1 - Special Topics in Sociocultural Medical Anthropology

Hours: 24L

This course combines lecture and discussion, and focuses on a topic in medical anthropology from a sociocultural perspective. Topics change from year to year. See Anthropology website for more details.

Prerequisite: ANT205H1 or ANT207H1

Breadth Requirements: Society and its Institutions (3)

ANT386H1 - Global Catholicism: Anthropological Approaches

Hours: 24L

This is a course on material religion and mediation, kingdom and kinship, gender symbolisms and devotions, ecologies of selves and the histories of senses that infuse Catholicism. It challenges us to think about the importance of Catholicism as a global phenomenon expressed through socio-political and cultural practices of the everyday life.

Prerequisite: ANT204H1 or ANT207H1 or RLG212H1 or RLG203H1

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT390H1 - Special Topics in Anthropology

Hours: 24L

This lecture-format course focuses on a relatively broad topic anthropology. Topics change from year to year. See Anthropology website for more details.

Prerequisite: 9.0 credits. Further prerequisites vary from year to year, consult the department.

ANT395Y0 - Special Topics in Anthropology

Hours: 48S

Studies in anthropology taken abroad. Areas of concentration vary depending on the instructor and year offered.

Recommended Preparation: ANT100Y1/ ANT200Y1/ ARH100Y1/ ANT203Y1/ ANT204H1/ ANT207H1

ANT396Y0 - Special Topics in Anthropology

Hours: 48S

Studies in anthropology taken abroad. Areas of concentration vary depending on the instructor and year offered.

Recommended Preparation: ANT100Y1/ ANT200Y1/ ARH100Y1/ ANT203Y1/ ANT204H1/ ANT207H1

ANT398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

ANT398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

ANT399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

JAL401H1 - Field Linguistics

Hours: 48P

Field Linguistics provides practice in language analysis based on elicited data from a native speaker of an indigenous or foreign language, emphasizing procedures

and techniques. (Given by the Departments of Anthropology and Linguistics)

Prerequisite: Completion of [LIN322H1](#) and [LIN331H1](#) or permission of the instructor

Exclusion: [LIND46H3](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT406H1 - Lithic Analysis

Hours: 24L/12P

Core reduction strategies, replication, experimental archaeology, use-wear, design approaches, ground stone, inferring behaviour from lithic artifacts.

Prerequisite: [ANT200Y1](#)/ [ARH100Y1](#), [ARH205H1](#)/ [ARH305H1](#), [ARH312Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

ANT407H1 - Inka and Aztec States

Hours: 24L

This course provides a comparative study of the emergence, organization, and transformation of the two historically-documented states of the native Americas: the Inka and the Aztec. Students will have the opportunity to analyze ethnohistorical and archaeological data in order to critically evaluate models of the pre-industrial state while gauging the anthropological significance of either convergence or particularity in the historical development of centralized political formations.

Prerequisite: [ANT200Y1](#)/ [ARH100Y1](#), [ARH205H1](#)/ [ARH305H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT408H1 - The History Lab: Applied Methods in Historical Archaeology

Hours: 24L

Artefacts have the potential to reveal a diverse range of information about everyday life in the past, including the inner workings of social institutions, class-based dynamics, and expressions of ethnic and gendered identities. Along with archival documents and oral histories, these materials are the interpretive building blocks that Historical Archaeologists use to answer larger research questions around micro and macro-level negotiations of power, the impact of industrialization on modernity, and the dynamic relationships between

individuals and society. Over the semester, students in this course will gain experience in identifying, classifying, and analyzing artefacts from Ontario that date to the nineteenth and early twentieth centuries. In addition to learning these applied skills, students will hone their inference skills by using artefacts and archives to develop research-based interpretations of daily life in the Toronto-area which will be presented publicly through a GIS (Geographic Information Systems) Storymap.

Prerequisite: [ARH100Y1](#)/ [ANT200Y1](#)

Recommended Preparation: [ARH312Y1](#)/ [ANT412H1](#), [GGR272H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

ANT409H1 - Landscape Archaeology

Hours: 24L/12P

Archaeological survey, spatial analysis of archaeological evidence over landscapes and territories, and ways archaeologists attempt to interpret landscapes, regional settlement systems, agricultural land use, regional exchange and communication, and past people's perceptions of or ideas about landscape.

Prerequisite: [ARH205H1](#)/ [ARH305H1](#)

Recommended Preparation: [GGR270H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT410H1 - Hunter-Gatherers Past & Present

Hours: 24S

Examines the diversity of recent hunter-gatherer societies, as a source of analogues for understanding the archaeological record of past foraging peoples.

Prerequisite: [ARH205H1](#)/ [ARH305H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT411H1 - Advanced Archaeological Theory

Hours: 24S

Seminar in the critical examination of major schools of archaeological thought.

Prerequisite: [ARH205H1](#)/ [ARH305H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT412H1 - Historical Archaeology

Hours: 16L/8P

Introduces the problems, methods and some of the material culture of colonial and industrial archaeology with emphasis on Canada and colonial America. Covers the use of documentary evidence, maps, architecture, and a variety of artifact classes.

Prerequisite: ANT200Y1/ ARH100Y1/ HIS374H1
Breadth Requirements: Society and its Institutions (3)

ANT415Y1 - Laboratory in Faunal Archaeo-Osteology

Hours: 48P/48S

Examination and interpretation of faunal material from archaeological sites as evidence for culture. The application form is posted on the following website: <https://www.anthropology.utoronto.ca/undergraduate>. The application form should be submitted by the deadline indicated on the website.

Prerequisite: ARH312Y1
Breadth Requirements: Living Things and Their Environment (4), The Physical and Mathematical Universes (5)

ANT416H1 - Archaeology of Ritual and Identity

Hours: 24L

This course offers a comparative survey of archaeological approaches to ritual practice as it relates to identity politics, personhood, and the negotiation of power relations in past societies. An important goal of the seminar is to introduce students to social theories on the inherent materiality of ritual performance, whether orchestrated in everyday practice or in elaborate religious and political spectacles.

Prerequisite: ARH205H1/ ARH305H1, and one of ANT100Y1/ ANT200Y1/ ARH100Y1/ ANT356H1
Breadth Requirements: Thought, Belief and Behaviour (2)

ANT419H1 - Current Debates in Palaeolithic Archaeology

Hours: 24S

Current research in Palaeolithic Archaeology reflecting emerging issues.

Prerequisite: ANT200Y1/ ARH100Y1/ ANT203Y1
Breadth Requirements: Society and its Institutions (3)

ANT420H1 - Archaeology of Inequality

Hours: 24L

How social complexity is manifested in the archaeological record. Origins and evolution of prehistoric complex societies, from small-scale chiefdoms to large-scale states.

Prerequisite: ANT200Y1/ ARH100Y1, ARH205H1/ ARH305H1
Breadth Requirements: Society and its Institutions (3)

ANT425H1 - Language in Anthropological Thought

Hours: 24L

How ideas about language fit into the overall views of humankind as expressed by selected anthropologists, linguists, sociologists, and philosophers.

Prerequisite: ANT204H1 or ANT207H1 or ANT253H1 and a 0.5 credit 300+ level course from Group C: Society, Culture, and Language
Breadth Requirements: Thought, Belief and Behaviour (2)

ANT426H1 - Western Views of the Non-West

Hours: 24S

The history and present of western concepts and images about the 'Other', in anthropological and other scholarship and in popular culture.

Prerequisite: 0.5 credit at the 300-level from Anthropology Group C: Society, Culture, and Language, or Near and Middle Eastern Civilization or Jewish Studies or Diaspora and Transnational Studies or History
Breadth Requirements: Creative and Cultural Representations (1)

ANT430H1 - Primate Conservation Biology

Hours: 24L

The focus of this course is on the science of primate conservation biology in an anthropological context. Topics will include primate biodiversity and biogeography, human impacts, and conservation strategies/policies. The effects of cultural and political considerations on primate conservation will also be discussed.

Prerequisite: [ANT203Y1](#)

Breadth Requirements: Living Things and Their Environment (4)

ANT431H1 - The Real Planet of the Apes

Hours: 12L/12P

Through fossil labs and lectures, we look back over 30 to 5 million years ago when apes roamed from Spain to China and Germany to Southern Africa. The fossil record of these apes, our ancestors, reveals how we evolved our large brains, dexterous hands, extended growth period and incredible intelligence. We encounter many surprises along the way, such as apes living with pandas in Hungary, animals with a mix of monkey, ape and pig traits and apes the size of polar bears. Of the more than 100 species of fossil apes known, only one gave rise to us.

Prerequisite: [ANT203Y1](#)

Recommended Preparation: [ANT335Y1](#) or [ANT330Y1](#)

Breadth Requirements: Living Things and Their Environment (4)

ANT434H1 - Health, Diet & Disease in the Past

Hours: 24L/12P

Advanced exploration of the life histories of past populations, through the application of palaeodietary analyses, palaeopathology and other appropriate research methods.

Prerequisite: [ANT334H1](#)

Breadth Requirements: Living Things and Their Environment (4)

ANT435H1 - Anthropology of Childhood and Childcare

Hours: 24L

A detailed review of the classic and recently emerging literature on the anthropology of children, childhood, and childcare. Focus is on theories for evolution of human parenting adaptations, challenges in research methodology and implications for contemporary research, practice and policy in the area of care and nutrition of infants and children.

Prerequisite: [ANT203Y1](#) or [ANT208H1](#)

Breadth Requirements: Living Things and Their Environment (4)

ANT436H1 - Primate Ecology & Social Behavior

Hours: 24L

This course will provide an overview of the ecology and social behavior of extant nonhuman primates. Topics will include socioecology, conservation biology, biogeography, aggression and affiliation, community ecology, communication, and socio-sexual behavior. There will also be extensive discussions of methods used in collecting data on primates in the field.

Prerequisite: [ANT203Y1](#)

Breadth Requirements: Living Things and Their Environment (4)

ANT437H1 - Introduction to Virtual Anthropology

Hours: 18L/24P

Virtual anthropology is a set of new methods that allow us to digitize objects, analyze, reconstruct and share them digitally, and bring them back into the real world. After a theoretical introduction, students will use surface scanners, photogrammetric software and 3D printers to digitize and study archaeological and anthropological specimens.

Prerequisite: [ANT334H1](#) or [ARH312Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

ANT438H1 - Topics in Emerging Scholarship (Evolutionary Anthropology)

Hours: 24S

Taught by an advanced PhD student or postdoctoral fellow, and based on his or her doctoral research and area

of expertise, this course presents a unique opportunity to explore intensively a particular Evolutionary Anthropology topic in-depth. Topics vary from year to year.

Prerequisite: [ANT203Y1](#) and a 0.5 credit 300+ level course from Group B: Evolutionary

Breadth Requirements: Living Things and Their Environment (4)

ARH440H1 - Photogrammetry and 3D Analysis of Material Culture

Hours: 12L/12P/12S

With the increasing availability of powerful computers and software, 3D modeling and recording has become commonplace in archaeology, architectural history, museum studies, and other areas of cultural heritage research. In this course, students will learn about a powerful new method for 3D recording known as photogrammetry. After a series of tutorials, they will gain firsthand experience creating their own models of various subjects, such as historical architecture and public art in Toronto, and museum objects on campus. They will also learn how to analyze and present 3D content, while thinking critically about the impact of how digital tools are currently being employed by and shaping the agendas of researchers in archaeology, art history, and related fields.

Prerequisite: 1.0 credit in ANT/ ARH/ FAH courses at the 300+ level

Exclusion: [ARH482H1](#) (Special Topics in Archaeology: 3D Modeling and Archaeological Analysis), offered in Fall 2019 and Fall 2021

Recommended Preparation: Previous experience with photography or imaging software will be helpful but is not required

Breadth Requirements: Creative and Cultural Representations (1)

ANT441H1 - Love, Sex, and Marriage

Hours: 24S

Beginning with anthropology's early work on kinship, and ending with recent analyses of sex work and the globalization of ideologies of romantic love and companionate marriage, this course will investigate how emotional and sexual relationships are produced, used, conceptualized, and experienced both within particular societies and transnationally.

Prerequisite: [ANT207H1](#) and [ANT343H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT442H1 - Social Studies of Autism

Hours: 24L

Autism is simultaneously celebrated by autists as a core identity and pathologized in public and clinical discourses as a disease to be cured. This course spans anthropology of autism and critical autism studies, examining autism as both lived experience and rubric for a complex set of biosocial and cultural phenomena. Engaging with academic and popular texts and multi-media sources, we explore how knowledge of autism is socially produced in historical, political and cultural contexts; autobiographies and ethnographies of autistic lives; histories of autistic organising; and autism and intersectionality, attending particularly to race and gender.

Prerequisite: [ANT345H1](#)/ [ANT348H1](#)/ [ANT357H1](#)/ [ANT358H1](#)/ [ANT382H1](#)/ [ANT385H1](#)/ [JAR301H1](#)

Exclusion: [ANT486H1](#) (Topic: *Social Studies in Autism*) offered in Summer 2023 and Winter 2024

Recommended Preparation: [ANT348H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT446H1 - Anthropology of Aging, Health, and Care

Hours: 36S

Introduces anthropological perspectives on the life course and aging, with particular attention to health challenges and care needs, the social and cultural arrangements around these, and the impacts of population aging, global migration, technological change and other broad scale transformations. Emphasizes questions, concepts, and insights from sociocultural medical anthropology. Readings present ethnographic research based in many different parts of the world. Course assignments include an ethnographic interview and analysis; students will be provided guidance on all stages of designing and carrying out this project.

Prerequisite: [ANT203Y1](#)/ [ANT204H1](#)/ [ANT205H1](#)/ [ANT207H1](#)/ [ANT208H1](#)/ [ANT210H1](#)

Recommended Preparation: [ANT205H1](#)/ [ANT208H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT450H1 - Multispecies Cities

Hours: 24S

As of 2007, for the first time in human history, more than half the world's peoples lived in cities. It is estimated that by 2030 over 60% will be urban-dwellers. This demographic shift suggests that for many (if not most) people, their primary encounter with "nature" will be urban based. This course explores the idea of "urban-nature" by

1) focusing on the ways in which various theorists have challenged traditional ways of viewing both “the city” and “nature” and 2) encouraging students to develop their own critical perspectives through ethnographic engagements with the city of Toronto.

Prerequisite: [ANT204H1](#) or [ANT207H1](#) and a 300-level course or above in Society, Culture and Language

Breadth Requirements: Society and its Institutions (3)

ANT455H1 - Anthropology of the Middle East

Hours: 24L

What can Anthropology, as both an academic discipline and a way of knowing, bring to our understanding of the Middle East, a region deeply entangled in global geopolitics? What kinds of questions have social and cultural anthropologists asked when faced with the diversity of a region that stretches from North Africa to West Asia? This course explores the cultural, historical, and political complexity of the region from an ethnographic perspective, while also attending critically to the way “The Middle East” has been constructed in the first place. Rather than attempting an overview of the entire region, it focuses on themes that have compelled anthropological research in the area in recent decades, including but not limited to war, migration, labour, “terrorism”, gender, racialization, and religion. We will draw from key academic texts in conversation with other genres of knowledge production including film, journalism, and literature. No previous familiarity with the region is required.

Prerequisite: [ANT207H1](#)

Exclusion: [ANTC89H3](#), [ANT484H1](#) (Topics: Ethnography of the Middle East and North Africa) taken in Winter 2014, [ANT384H1](#) (Topics: Peoples of the Middle East and North Africa) taken in Winter 2017, Winter 2018.

Recommended Preparation: [NMC241H1](#), [RLG204H1](#), [NMC283Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT456H1 - Queer Ethnography

Hours: 24L

This course explores, first, how and where forms of desire and sexual practice have become sites of anthropological inquiry and exemplars of particular cultural logics. Tracing, then, the transnational turn in the anthropology of sexuality, the course engages important debates about culture, locality, and globalization. By focusing on the transnational movement of desires, practices, and pleasures through activism, mass media, and tourism, the course asks how sex is global and how globalization is

thoroughly sexed. Course material will stress, but not be limited to, forms of same-sex or otherwise queer sexualities.

Prerequisite: [ANT207H1](#) and any 300-level course in Society, Culture and Language

Breadth Requirements: Society and its Institutions (3)

ANT457H1 - Anthropology of Material Culture

Hours: 24L

The course addresses the cultural and social significance of material culture in specific cultural settings, and the role that artifacts have played in the history of anthropological thought from early typological displays to the most recent developments of material culture studies.

Prerequisite: [ANT200Y1](#)/ [ARH100Y1](#)/ [ANT207H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

ANT458H1 - Indigenous Health Histories and Canadian Settler Colonialism

Hours: 24S

We focus on the relationship between the health and well-being of Indigenous people/s and Canadian settler colonialism, drawing on scholarship from medical anthropology, history, Indigenous studies and settler colonial studies. The course is centrally concerned with how Indigenous social and political actors have engaged with health, illness, social suffering and healing throughout the 20th century, and informed by anthropological and historical understandings of healthcare systems as permeated by dynamic relations of power.

Prerequisite: Any 300 or 400 level course in Society, Culture and Language or [INS350H1](#) or [INS355H1](#) or [JFP450H1](#) or permission of the instructor

Recommended Preparation: [ANT345H1](#) or [ANT348H1](#) or [ANT358H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT459H1 - Multispecies Ethnography

Hours: 24S

This course introduces perspectives which extend anthropological inquiry beyond the solely human realm. Building on an acknowledgement of the fundamental interconnectedness of humans and other life forms, it explores the agencies of other-than-humans, including

nonhuman animals, land and seascapes, plants, bacteria, “contaminants,” and others. The course involves field-site visits and fieldwork projects in Toronto (GTA region) and engages with ethnographic methodologies best suited to investigations of inter-species, inter-life form relationships.

Prerequisite: [ANT376H1](#) or three 300-level anthropology courses in any subfield or permission of instructor

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT460H1 - Global Perspectives on Women's Health

Hours: 24S

This fourth-year seminar examines how female gender shapes health and illness. Using case studies of sexual health, fertility and its management, substance use/abuse, mental health, and occupational/labor health risks, the course investigates the material, political, and socio-cultural factors that can put women at risk for a range of illness conditions.

Prerequisite: [ANT343H1](#)/ [ANT345H1](#)/ [ANT348H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT462H1 - Anthropology of Affect

Hours: 24S

This course examines how anthropologists have studied the way that people hope, imagine, love, and despise. Ethnography of the intimate realms of affect raises important questions about knowledge production and methodology as well as offering insight into how people come to act upon the world and what the human consequences of such action are. The course will also examine how the intimate is socially produced and harnessed in the service of politics and culture. Topics will include grief and its lack; dreams and activism; love and social change; memory and imperialism; sexuality and care; and violence and hope.

Prerequisite: [ANT207H1](#) and any 300-level course in Society, Culture and Language

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT463H1 - Anthropology of Racial Capitalism and Dispossession

Hours: 24S

This course considers racial capitalism from an anthropological perspective through ethnographies and films which examine the role race, colonialism and white supremacy play in shaping and enabling contemporary forms of capitalist accumulation by dispossession in everyday life. Considering dispossession broadly, we will explore not only processes that dispossess people of property and land, but also of rights, modes of belonging, health, citizenship and life. We will also look at the ways people are organizing to reclaim what they have been dispossessed of or denied, from anti-eviction movements and abolitionist organizing to struggles for reproductive rights, food sovereignty and climate justice.

Prerequisite: [ANT204H1](#)/ [ANT207H1](#)

Recommended Preparation: [ANT342H1](#)/ [ANT366H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT464H1 - Black Ethnographies

Hours: 24S

Black populations in the African Diaspora defy simple characterizations. In this course, we will examine the experiences of Black people through an ethnographic exploration of their lives. The close analysis of ethnographic monographs and articles will illuminate the ways in which race, gender, ethnicity, class, sexuality, ability, nationality, and other factors, shape the everyday for Black people in different cultural contexts. An additional focus will be a consideration of the experiences of Black anthropologists as ethnographers and scholars who are broadening anthropological discourses.

Prerequisite: [ANT342H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT465H1 - Ethnographic Practicum: Toronto Tours

Hours: 24P

This course provides students with a partnered field experience by conducting ethnographic research on visitor tours in partner organizations in Toronto with faculty's supervision. The project will be developed in collaboration with the partner organizations to offer students partnership-based experiential learning opportunities. Students will produce detailed ethnographic descriptions of tourist experiences, analyze how media representations and tourism infrastructure shape diverse visitor experiences, explore how existing infrastructure can be potentially repurposed for a decolonial or inclusive tour, and develop skills to communicate their findings to the broader audience.

Prerequisite: [ANT380H1](#). Students who do not meet the prerequisite are encouraged to contact the Department.

Recommended Preparation: [ANT324H1](#)

Breadth Requirements: Society and its Institutions (3)

Course Experience: Partnership-Based Experience

ANT472H1 - Japan in Global Context: Anthropological Perspectives

Hours: 24L

This course examines how what we know as Japan and its culture has been constructed through global interactions. Topics include gender and sexuality, race and ethnicity, social and family life, work and leisure, and Japanese identity amid changing global power relations.

Prerequisite: [ANT204H1](#)/ [ANT207H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT473H1 - Ethnographic Practicum: The University

Hours: 36S

Students carry out original ethnographic research projects on some aspect of life in the University of Toronto: its students, staff and faculty; its hierarchies and habits; and the everyday practices in classrooms, labs, dining halls, offices, clubs, and residence corridors. Class time is used for collective brainstorming, feedback and analysis.

Prerequisite: [ANT380H1](#) or permission of the instructor

Breadth Requirements: Society and its Institutions (3)

ANT474H1 - Ethnographies of HIV/AIDS: Risk, Vulnerability, and Care

Hours: 24S

This course examines HIV/AIDS globally and ethnographically focusing on how gendered political economies create HIV vulnerability; the experiences of sexual minorities; how religious institutions shape practices of social care and exclusion; and anthropological critiques of HIV awareness campaigns and counseling as sites of governmentality.

Prerequisite: [ANT348H1](#) or [ANT345H1](#) or [ANT358H1](#) or [ANT343H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT475H1 - Reading Ethnography

Hours: 24P

Students read several full-length ethnographies, both classical and contemporary, and debate what makes for sound ethnographic research and writing, as well as what ethnography is and "should" be as a genre of writing and representation.

Prerequisite: [ANT207H1](#) and [ANT370H1](#)

Breadth Requirements: Society and its Institutions (3)

ANT477H1 - Transnational Korea in and outside the Peninsula

Hours: 24S

This course addresses reading ethnography as a tool to understand compressed and complex modernity such as Korean societies, both in and outside of the Korean peninsula. In particular, this course aims to develop students' critical thinking on class, ethnicity, gender, family, and migration in Korea and diasporic societies of Koreans in Canada, China, Japan, and US.

Prerequisite: [ANT207H1](#) and 0.5 credit at the 300+ level from BR=1/2/3 courses

Breadth Requirements: Society and its Institutions (3)

ANT480H1 - Special Topics in Anthropological Research

Hours: 24S

Unique opportunity to explore a particular anthropological topic in-depth. Topics vary from year to year.

Prerequisite: Any 200-level Anthropology course and 1.0 credit at the 300+ level

ANT480Y1 - Special Topics in Anthropological Research

Hours: 48S

Unique opportunity to explore a particular anthropological topic in-depth. Topics vary from year to year.

Prerequisite: Any 200-level Anthropology course and 1.0 credit at the 300+ level

ANT481H1 - Special Topics in Evolutionary Anthropology

Hours: 24S

Unique opportunity to explore in-depth a particular topic in Evolutionary Anthropology. Topics vary from year to year.

Prerequisite: ANT203Y1 and a 0.5 credit 300+ level course from Group B: Evolutionary

Breadth Requirements: Living Things and Their Environment (4)

ARH482H1 - Special Topics in Archaeology

Hours: 24S

Unique opportunity to explore a particular archaeological topic in-depth. Topics vary from year to year.

Prerequisite: ARH205H1/ ARH305H1

ANT483H1 - Special Topics in Linguistic Anthropology

Hours: 24S

This course will focus on an advanced topic in Linguistic Anthropology. Topic will vary from year- to-year.

Prerequisite: ANT253H1 and 1.0 credit at the 300-level from Group C: Society, Culture and Language

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT484H1 - Special Topics in Social Cultural Anthropology

Hours: 24S

Unique opportunity to explore a particular Social Cultural Anthropology topic in-depth. Topics vary from year to year.

Prerequisite: ANT207H1 and 1.0 credit at the 300-level from Group C: Society, Culture and Language

Breadth Requirements: Society and its Institutions (3)

ANT485H1 - Topics in Emerging Scholarship (Society, Culture and Language)

Hours: 24S

Taught by an advanced PhD student or postdoctoral fellow, and based on his or her doctoral research and area of expertise, this course presents a unique opportunity to explore intensively a particular Socio-cultural or Linguistic Anthropology topic in-depth. Topics vary from year to year.

Prerequisite: ANT207H1 and 1.0 credit at the 300+ level from Group C: Society, Culture and Language

Breadth Requirements: Society and its Institutions (3)

ANT486H1 - Special Topics: Socio-Cultural Research Seminar

Hours: 24S

Unique opportunity to explore a particular Social Cultural Anthropology topic in-depth. Topics vary from year to year.

Prerequisite: ANT207H1 and 1.0 credit at the 300+ level from Group C: Society, Culture and Language

Breadth Requirements: Society and its Institutions (3)

ANT488H1 - Special Topics in Medical Anthropology

Hours: 24S

This discussion-based seminar course focuses on a topic in medical anthropology. Topics change from year to year. See Anthropology website for more details.

Prerequisite: ANT205H1, ANT208H1, and 1.0 credit in ANT/ARH/JAL/JAR courses at the 300-level

Breadth Requirements: Society and its Institutions (3)

ANT490Y1 - Field Course in Social and Cultural Anthropology

Hours: 24L/52P

An instructor-supervised experiential study project in social and cultural anthropology. Course takes place in an off-campus setting. Not eligible for CR/NCR option.

Prerequisite: ANT204H1 or ANT207H1, and 1.0 credit from Group C: Society, Culture, and Language

Breadth Requirements: Society and its Institutions (3)

ANT491H1 - Internship in Anthropology

Hours: 24P

This course is an opportunity to apply acquired knowledge in anthropology or archeology in a work placement environment. Opportunities may include local community organizations, international development organizations, museum or heritage projects, or media production projects. Only internships that require knowledge and skills in anthropology and/or archeology will be considered. Student must fulfill responsibilities of the internship as well as complete a final research paper. If qualified, the student's internship supervisor will mark the final paper for the course; if not, an appropriate academic supervisor will be assigned from within the Dept. of Anthropology. Restricted to students in a Specialist or Major program in Anthropology. Not eligible for CR/NCR option. Instructions on how to obtain an application form are posted on the following website: <https://www.anthropology.utoronto.ca/undergraduate>. The application form should be submitted at least one week prior to the beginning of classes.

Prerequisite: 14.0 credits, 3.0 credits in Anthropology
Breadth Requirements: Society and its Institutions (3)

ANT491Y1 - Internship in Anthropology

Hours: 48P

This course is an opportunity to apply acquired knowledge in anthropology or archeology in a work placement environment. Opportunities may include local community organizations, international development organizations, museum or heritage projects, or media production projects. Only internships that require knowledge and skills in anthropology and/or archeology will be considered. Student must fulfill responsibilities of the internship as well as complete a final research paper. If qualified, the student's internship supervisor will mark the final paper for the course; if not, an appropriate academic supervisor will be assigned from within the Dept. of Anthropology. Restricted to students in a Specialist or Major program in Anthropology. Not eligible for CR/NCR option. Instructions on how to obtain an application form are posted on the following website: <https://www.anthropology.utoronto.ca/undergraduate>. The application form should be submitted at least one week prior to the beginning of classes.

Prerequisite: 14.0 credits, 3.0 credits in Anthropology
Breadth Requirements: Society and its Institutions (3)

ARH494H1 - Topics in Emerging Scholarship (Archaeology)

Hours: 24S

Taught by an advanced PhD student or postdoctoral fellow, and based on his or her doctoral research and area of expertise, this course presents a unique opportunity to explore intensively a particular Archaeology topic in-depth. Topics vary from year to year.

Prerequisite: ARH205H1/ ARH305H1
Breadth Requirements: Society and its Institutions (3)

ARH495H1 - Archaeology Research Practicum

Laboratory or practical research on an archaeological project that emphasizes methods and research design in archaeology. Students must obtain the consent of a Supervisor before enrolling. Students are required to give an oral presentation of research results to an open meeting of the Archaeology Centre at the conclusion of the course. Application must be made to the Anthropology Department. Not eligible for CR/NCR option. Instructions on how to obtain an application form are posted on the following website: <https://www.anthropology.utoronto.ca/undergraduate>. The application form should be submitted at least one week prior to the beginning of classes.

Prerequisite: A minimum of 14.0 credits, permission of Supervisor and Undergraduate Coordinator.

Exclusion: ANT497Y1

Recommended Preparation: ARH205H1/ ARH305H1, ARH312Y1

ANT497Y1 - Independent Research

Supervised independent research on a topic agreed on by the student and supervisor before enrolment in the course. Open in exceptional circumstances to advanced students with a strong background in Anthropology. Course Supervisor must be a member of the Anthropology faculty. A maximum of one year of Independent Research courses is allowed per program. Not eligible for CR/NCR option. Instructions on how to obtain an application form are posted on the following website: <https://www.anthropology.utoronto.ca/undergraduate>. The application form should be submitted at least one week prior to the beginning of classes.

Prerequisite: A minimum of 10.0 credits, permission of Supervisor and Undergraduate Coordinator.

ANT498H1 - Independent Research

Supervised independent research on a topic agreed on by the student and supervisor before enrolment in the course. Open in exceptional circumstances to advanced students with a strong background in Anthropology. Course Supervisor must be a member of the Anthropology faculty. A maximum of one year of Independent Research courses is allowed per program. Not eligible for CR/NCR option. Instructions on how to obtain an application form are posted on the following website: <https://www.anthropology.utoronto.ca/undergraduate>. The application form should be submitted at least one week prior to the beginning of classes.

Prerequisite: A minimum of 10.0 credits, permission of Supervisor and Undergraduate Coordinator.

ANT499H1 - Independent Research

Supervised independent research on a topic agreed on by the student and supervisor before enrolment in the course. Open in exceptional circumstances to advanced students with a strong background in Anthropology. Course Supervisor must be a member of the Anthropology faculty. A maximum of one year of Independent Research courses is allowed per program. Not eligible for CR/NCR option. Instructions on how to obtain an application form are posted on the following website: <https://www.anthropology.utoronto.ca/undergraduate>. The application form should be submitted at least one week prior to the beginning of classes.

Prerequisite: A minimum of 10.0 credits, permission of Supervisor and Undergraduate Coordinator.

Archaeology

Introduction

The Archaeology Program focuses on the study of past human societies primarily through their material remains, or “material culture.” Archaeologists explore the nature of and changes in past cultures around the world through survey, excavation and analyses of stone tools, pottery, bones, plant remains, architecture and other cultural residues. Some of the major research foci of archaeologists are the behaviour and adaptations of early hominins, diversity of hunter-gatherer societies, origins of agriculture, pastoralism, urbanism and politically complex states, the workings of ancient exchange systems, and the development of class-based and gender-based political and economic inequalities in complex societies. Working archaeologists often specialize geographically, chronologically or thematically. Classical archaeologists, for example, specialize in the cultures of the ancient Greco-Roman world, while palaeoethnobotanists explore ways that botanical residues of ancient and prehistoric cultures can inform us about their economies and social systems. The specialist, major and minor programs allow students to explore archaeology in an interdisciplinary setting.

Students in the specialist or major program should consult the program coordinator or faculty members in their intended areas of specialization for advice on the selection of courses. Those intending to go on to graduate studies in departments such as Classics, East Asian Studies, Art History or Near and Middle Eastern Civilizations should pay particular attention to language requirements at the graduate level.

The Archaeology Specialist (Arts program) is designed for students who would like to concentrate in archaeology while drawing on the teaching resources of diverse departments. See details below. Students interested in pursuing graduate studies should combine it with study of the ancient and modern languages relevant to their primary area of interest.

The Archaeology Major (Arts program) is designed for students who would like to pursue their interests in archaeology in conjunction with a Major in another field, such as Art History, Classics, Earth Sciences, History, or Near and Middle Eastern Civilizations. See details below.

The Archaeology Minor (Arts program) allows students to sample archaeology while pursuing their main interest in another discipline. See details below.

For all these programs, students are encouraged to seek counselling and information from the Anthropology Undergraduate Administrator/Student Counsellor, Anthropology (416-978-6414; website: <https://www.anthropology.utoronto.ca/>)

Careers in archaeology usually require graduate training, although some aspects of archaeology in the public sector can be pursued with an undergraduate degree. Students completing our program have also successfully pursued careers in teaching, tourism, and cultural resource management.

Archaeology Programs

Archaeology Specialist (Arts Program) - ASSPE0155

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following course with the stated minimum grade is required:

- ANT200Y1/ ARH100Y1 (70%)

Completion Requirements:

(11.0 credits, including at least 4.0 credits at the 300+ level and 1.0 credit at the 400-level)

First Year:

1. ANT200Y1/ ARH100Y1
2. Statistical Requirement: NMC268H1 or GGR270H1 (Geography pre- or co-requisites waived for Archaeology and Anthropology students); or 0.5 credit from STA220H1, STA221H1, STA247H1, STA248H1, STA255H1, STA257H1, STA261H1, or ANTC35H3 (at UTSC)
3. ANT100Y1 or CLA160H1. If CLA160H1 is taken, students must take an additional 0.5 credit from the following: CLA210H1, CLA230H1, CLA231H1; FAH206H1, FAH207H1; GGR101H1; NMC262H1

Upper Years:

4. ARH205H1/ ARH305H1, ARH309H1, ARH312Y1, ANT411H1
5. Field Requirement: ANT311Y1 or ARH306Y1 or NMC261Y0 or ARH361Y1 or ARH361H1 or ANT418H5 (at UTM). If ARH361H1 or ANT418H5 is taken, students must take an additional 0.5 credit from ANT/ ARH/ JAL/ JAR/ JGA courses.
6. 5.0 credits from Groups A and B, of which 2.0 credits

must be from Group A and 2.0 credits must be from Group B and 1.0 credit from either group

Note that students may substitute ARH495H1 (Research Practicum) for 0.5 credit of this requirement (assignment to Group A or B to be determined by Undergraduate Coordinator).

Group A: Theoretical and Methods 1: Theoretical

ANT210H1, ANT215H1, ANT325H1, ANT370H1,
ANT409H1, ANT410H1, ANT411H1, ANT416H1,
ANT420H1, GGR274H1, MCS225Y1, NMC266H1,
NMC268H1, NMC474H1

Group A: Theoretical and Methods 2: Archaeometry

ARH440H1, CHM317H1, CHM414H1, CHM416H1,
GGR315H1, JGA305H1, NMC470H1

Group A: Theoretical and Methods 3: Ceramic and Lithic Analysis

ANT406H1, ANT408H1, FAH205H1, NMC462H1,
NMC465H1, NMC466H1, NMC469Y1

Group A: Theoretical and Methods 4: Geoarchaeology

ANT409H1, GGR272H1, GGR273H1, GGR301H1,
GGR315H1, GGR373H1, GGR390H1, GGR406H1,
GGR413H1, ESS234H1, ESS331H1, JGA305H1

Group A: Theoretical and Methods 5: Osteoarchaeology and Zooarchaeology

ANT334H1/ ANT334Y1, ANT335Y1, ANT338H1,
ANT415Y1, ANT434H1, EEB318H1, EEB323H1,
EEB324H1, EEB390H1

Group A: Theoretical and Methods 6: Paleoethnobotany

EEB340H1, GGR305H1, GGR390H1, JGE331H1

Group A: Theoretical and Methods 7: Urbanism and Settlement

ANT318H1

Group B: Area Courses and Cultural History 1: Classical and Aegean Archaeology

CLA210H1, CLA215H1, CLA230H1, CLA231H1,
CLA362H1, CLA363H1, CLA364H1, CLA367H1,
CLA368H1, CLA369H1, CLA372H1, CLA373H1,
CLA389H1, CLA392H1, CLA402H1, CLA403H1,
FAH206H1, FAH207H1, FAH303H1, FAH309H1,
FAH401H1, FAH407H1, HIS320H1

Group B: Area Courses and Cultural History 2: Egyptian Archaeology

JAL328H1, NMC267H1, NMC343H1, NMC344H1,
NMC365H1, NMC367H1, NMC368H1, NMC461H1,
NMC467H1, NMC468H1

Group B: Area Courses and Cultural History 3: European and Celtic Archaeology

CLT344Y1, FAH318H1, FAH327H1, FAH328H1,
FAH420H1, FAH421H1, HIS321H1, HIS323H1,
HIS336H1, HIS403H1, HIS424H1, HIS432H1

Group B: Area Courses and Cultural History 4: Historical Archaeology

ANT412H1, GGR240H1, GGR241H1, GGR336H1,
GGR421H1, HIS369H1

Group B: Area Courses and Cultural History 5: Islamic Archaeology

HIS303H1, NMC348Y1, NMC376H1, NMC394H1,
NMC476H1

Group B: Area Courses and Cultural History 6: Near Eastern Archaeology

JAL328H1, NMC260H1, NMC264H1, NMC346H1,
NMC347H1, NMC360H1, NMC361H1, NMC364H1,
NMC366H1, NMC369H1, NMC370H1, NMC445H1,
NMC446H1, NMC447H1, NMC461H1, NMC463H1,
NMC464H1, NMC466H1, NMC471H1, NMC491H1

Group B: Area Courses and Cultural History 7: North and South American Prehistory

ANT315H1, ANT317H1, ANT319Y1, ANT320H1,
ANT407H1, HIS369H1, JIG322H1

Group B: Area Courses and Cultural History 8: Old World Prehistory

ANT419H1, ARH360H1

Group B: Area Courses and Cultural History 9: East Asian Archaeology

EAS312H1, EAS412H1

Archaeology Major (Arts Program) - ASMAJ0155

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- ANT100Y1 (65%) or ANT200Y1/ ARH100Y1 (65%)

Completion Requirements:

(7.0 credits, including at least 2.0 credits at the 300+ level and one 0.5 credit at the 400-level)

First Year:

1. ANT200Y1/ ARH100Y1
2. ANT100Y1 or CLA160H1. If CLA160H1 is taken, students must take an additional 0.5 credit from the following: (CLA210H1/ CLA230H1/ CLA231H1)/(FAH206H1/ FAH207H1)/ GGR101H1/ NMC262H1

Upper Years:

3. ARH205H1/ ARH305H1, and ARH309H1
4. 1.0 credit from: ARH306Y1, ARH312Y1, ARH361Y1, ARH361H1, ANT311Y1, NMC261Y0, NMC465H1, NMC466H1
5. 2.5 credits from: Group A
6. 0.5 credit from: Group B

Group A: Theoretical and Methods 1: Theoretical

ANT210H1, ANT215H1, ANT325H1, ANT370H1, ANT409H1, ANT410H1, ANT411H1, ANT416H1, ANT420H1, GGR274H1, MCS225Y1, NMC266H1, NMC268H1, NMC474H1

Group A: Theoretical and Methods 2: Archaeometry

ARH440H1, CHM317H1, CHM414H1, CHM416H1, GGR315H1, JGA305H1, NMC470H1

Group A: Theoretical and Methods 3: Ceramic and Lithic Analysis

ANT406H1, ANT408H1, FAH205H1, NMC462H1, NMC465H1, NMC466H1, NMC469Y1

Group A: Theoretical and Methods 4: Geoarchaeology

ANT409H1, GGR272H1, GGR273H1, GGR301H1, GGR315H1, GGR373H1, GGR390H1, GGR406H1, GGR413H1, ESS234H1, ESS331H1, JGA305H1

Group A: Theoretical and Methods 5: Osteoarchaeology and Zooarchaeology

ANT334H1/ ANT334Y1, ANT335Y1, ANT338H1, ANT415Y1, ANT434H1, EEB318H1, EEB323H1, EEB324H1, EEB390H1

Group A: Theoretical and Methods 6: Paleoethnobotany

EEB340H1, GGR305H1, GGR390H1, JGE331H1

Group A: Theoretical and Methods 7: Urbanism and Settlement

ANT318H1

Group B: Area Courses and Cultural History 1: Classical and Aegean Archaeology

CLA210H1, CLA215H1, CLA230H1, CLA231H1, CLA362H1, CLA363H1, CLA364H1, CLA367H1, CLA368H1, CLA369H1, CLA372H1, CLA373H1, CLA389H1, CLA392H1, CLA402H1, CLA403H1, FAH206H1, FAH207H1, FAH303H1, FAH309H1, FAH401H1, FAH407H1, HIS320H1

Group B: Area Courses and Cultural History 2: Egyptian Archaeology

JAL328H1, NMC267H1, NMC343H1, NMC344H1, NMC365H1, NMC367H1, NMC368H1, NMC461H1, NMC467H1, NMC468H1

Group B: Area Courses and Cultural History 3: European and Celtic Archaeology

CLT344Y1, FAH318H1, FAH327H1, FAH328H1, FAH420H1, FAH421H1, HIS321H1, HIS323H1, HIS336H1, HIS403H1, HIS424H1, HIS432H1

Group B: Area Courses and Cultural History 4: Historical Archaeology

ANT412H1, GGR240H1, GGR241H1, GGR336H1, GGR421H1, HIS369H1

Group B: Area Courses and Cultural History 5: Islamic Archaeology

HIS303H1, NMC348Y1, NMC376H1, NMC394H1, NMC476H1

Group B: Area Courses and Cultural History 6: Near Eastern Archaeology

JAL328H1, NMC260H1, NMC264H1, NMC346H1, NMC347H1, NMC360H1, NMC361H1, NMC364H1, NMC366H1, NMC369H1, NMC370H1, NMC445H1, NMC446H1, NMC447H1, NMC461H1, NMC463H1, NMC464H1, NMC466H1, NMC471H1, NMC491H1

Group B: Area Courses and Cultural History 7: North and South American Prehistory

ANT315H1, ANT317H1, ANT319Y1, ANT320H1,
ANT407H1, HIS369H1, JIG322H1

Group B: Area Courses and Cultural History 8: Old World Prehistory

ANT419H1, ARH360H1

Group B: Area Courses and Cultural History 9: East Asian Archaeology

EAS312H1, EAS412H1

Note: Effective Fall 2021, courses associated with St. Michael's College's Celtic Studies program will have the new "CLT" designator. In addition, courses associated with Victoria College's Material Culture and Semiotics program will have the new "MCS" designator.

Archaeology Minor (Arts Program) - ASMIN0155

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following course with the stated minimum grades are required:

- ANT200Y1/ ARH100Y1 (65%)

Completion Requirements:

(4.0 credits, including at least 1.0 credit at the 300 or 400-levels)

1. ANT200Y1/ ARH100Y1
2. ARH205H1/ ARH305H1, and ARH309H1
3. 1.5 credits from Group A
4. 0.5 credit from Group B

If ARH312Y1 is completed, it will be considered a Group A course.

Group A: Theoretical and Methods 1: Theoretical

ANT210H1, ANT215H1, ANT325H1, ANT370H1,
ANT409H1, ANT410H1, ANT411H1, ANT416H1,
ANT420H1, GGR274H1, MCS225Y1, NMC266H1,
NMC268H1, NMC474H1

Group A: Theoretical and Methods 2: Archaeometry

ARH440H1, CHM317H1, CHM414H1, CHM416H1,
GGR315H1, JGA305H1, NMC470H1

Group A: Theoretical and Methods 3: Ceramic and Lithic Analysis

ANT406H1, ANT408H1, FAH205H1, NMC462H1,
NMC465H1, NMC466H1, NMC469Y1

Group A: Theoretical and Methods 4: Geoarchaeology

ANT409H1, GGR272H1, GGR273H1, GGR301H1,
GGR315H1, GGR373H1, GGR390H1, GGR406H1,
GGR413H1, ESS234H1, ESS331H1, JGA305H1

Group A: Theoretical and Methods 5: Osteoarchaeology and Zooarchaeology

ANT334H1/ ANT334Y1, ANT335Y1, ANT338H1,
ANT415Y1, ANT434H1, EEB318H1, EEB323H1,
EEB324H1, EEB390H1

Group A: Theoretical and Methods 6: Paleoethnobotany

EEB340H1, GGR305H1, GGR390H1, JGE331H1

Group A: Theoretical and Methods 7: Urbanism and Settlement

ANT318H1

Group B: Area Courses and Cultural History 1: Classical and Aegean Archaeology

CLA210H1, CLA215H1, CLA230H1, CLA231H1,
CLA362H1, CLA363H1, CLA364H1, CLA367H1,
CLA368H1, CLA369H1, CLA372H1, CLA373H1,
CLA389H1, CLA392H1, CLA402H1, CLA403H1,
FAH206H1, FAH207H1, FAH303H1, FAH309H1,
FAH401H1, FAH407H1, HIS320H1

Group B: Area Courses and Cultural History 2: Egyptian Archaeology

JAL328H1, NMC267H1, NMC343H1, NMC344H1,
NMC365H1, NMC367H1, NMC368H1, NMC461H1,
NMC467H1, NMC468H1

Group B: Area Courses and Cultural History 3: European and Celtic Archaeology

CLT344Y1, FAH318H1, FAH327H1, FAH328H1,
FAH420H1, FAH421H1, HIS321H1, HIS323H1,
HIS336H1, HIS403H1, HIS424H1, HIS432H1

Group B: Area Courses and Cultural History 4: Historical Archaeology

ANT412H1, GGR240H1, GGR241H1, GGR336H1, GGR421H1, HIS369H1

Group B: Area Courses and Cultural History 5: Islamic Archaeology

HIS303H1, NMC348Y1, NMC376H1, NMC394H1, NMC476H1

Group B: Area Courses and Cultural History 6: Near Eastern Archaeology

JAL328H1, NMC260H1, NMC264H1, NMC346H1, NMC347H1, NMC360H1, NMC361H1, NMC364H1, NMC366H1, NMC369H1, NMC370H1, NMC445H1, NMC446H1, NMC447H1, NMC461H1, NMC463H1, NMC464H1, NMC466H1, NMC471H1, NMC491H1

Group B: Area Courses and Cultural History 7: North and South American Prehistory

ANT315H1, ANT317H1, ANT319Y1, ANT320H1, ANT407H1, HIS369H1, JIG322H1

Group B: Area Courses and Cultural History 8: Old World Prehistory

ANT419H1, ARH360H1

Group B: Area Courses and Cultural History 9: East Asian Archaeology

EAS312H1, EAS412H1

Note: Effective Fall 2021, courses associated with St. Michael's College's Celtic Studies program will have the new "CLT" designator. In addition, courses associated with Victoria College's Material Culture and Semiotics program will have the new "MCS" designator.

Archaeology Courses

ARH100Y1 - Introduction to Archaeology

Previous Course Number: ANT200Y1

Hours: 48L/24T

Archaeology entails an active process of uncovering evidence for and learning about aspects of the human past. The goal of this course is to involve students in current archaeological practice, including its socio-political context, and the global structure of the human experience from human evolution through cities and empires. Students will critically engage with ideas both within and outside the discipline on working with descendant communities, stewardship, ethical practice, and the relevance of archaeology to contemporary issues from climate change to social inequality. This course can serve as an introduction for students planning to pursue an archaeology program or as an opportunity to engage with a fascinating topic that is relevant to disciplines ranging from science to humanities.

Exclusion: ANT200Y1

Breadth Requirements: Society and its Institutions (3)

ARH205H1 - Archaeological Inference

Previous Course Number: ARH305H1

Hours: 24L/6P/6S

This course explores ways that archaeologists investigate research questions and interpret archaeological evidence. It introduces some of the main conceptual tools that archaeologists use to make inferences, including analogy, ethnoarchaeology, and experimental archaeology. It also uses practical exercises to help students understand the basic logic of some of the methods that archaeologists use in their research, such as dating methods and identification of spatial patterns. This prepares students for more advanced courses in archaeology.

Prerequisite: ANT200Y1/ ARH100Y1

Exclusion: ARH305H1

Recommended Preparation: ANT100Y1

Breadth Requirements: Society and its Institutions (3)

JGA305H1 - Environmental and Archaeological Geophysics

Hours: 24L/12P

Application of near-surface geophysical methods to investigate environmental and archaeological sites; in particular magnetometry, resistivity, ground-probing radar, and seismic surveys. Course will cover background on the various methods, and allow students to run field surveys and present on case studies.

Prerequisite: ESS241H1/ ESS262H1/ (ANT200Y1/ ARH100Y1)/ GGR201H1/ PHY224H1/ PHY250H1/ PHY254H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ARH306Y1 - Archaeological Field Methods

Hours: 12L/61P

Intensive instruction in archaeological field methods and acquisition of field skills, including archaeological search and survey, site mapping, laying out excavation grids, use of theodolites, total station, and GPS, stratigraphic excavation, stratigraphy, field recording, screening sediment, Ontario license and reporting requirements. Normally this course would take place on campus in the summer. This course has a mandatory Lab Materials Fee of \$25 to cover non-reusable materials. The fee will be included on the student's ACORN invoice. The details and application form are posted on the following website: <https://www.anthropology.utoronto.ca/undergraduate/curriculum-course-information/field-schools-and-research-opportunities>. The application form should be submitted at least one week prior to the beginning of classes.

Prerequisite: ANT200Y1/ ARH100Y1/ (NMC260H1, NMC262H1)/ NMC261Y0

ARH309H1 - Archaeology, Ethics, and the Public

Hours: 24L

An analysis of ethics in contemporary archaeology that covers reburial and repatriation, interpretation of the archaeological record in the context of historically oppressed groups, ethnic minorities, and non-western societies, the ethics of collecting and managing cultural property, relationships with the media, the debates surrounding looting, and other issues.

Prerequisite: ANT200Y1/ ARH100Y1

Breadth Requirements: Society and its Institutions (3)

ARH312Y1 - Archaeological Laboratory

Hours: 28L/44P

Techniques for making archaeological data meaningful after excavation or survey. Archaeological measurements, compilation of data, database design, archaeological systematics, and sampling theory in the context of lithics, pottery, floral, faunal and other archaeological remains.

Prerequisite: ANT200Y1/ ARH100Y1, ARH205H1/ ARH305H1, and one of EEB225H1/ GGR270H1*/ STA220H1/ STA221H1/ STA257H1/ STA261H1/ ANTC35H3** Note: *Geography pre- or co-requisites

waived for Anthropology and Archaeology students; ** to be taken at the Scarborough Campus

Breadth Requirements: The Physical and Mathematical Universes (5)

ARH360H1 - Prehistory of the Near East

Hours: 24L

From earliest times through the rise of complex hunter-gatherers, and the food producing revolution to politically complex societies in Southwest Asia.

Prerequisite: ANT200Y1/ ARH100Y1/ (NMC260H1, NMC262H1)

Breadth Requirements: Society and its Institutions (3)

ARH361H0 - Field Archaeology

ARH361H1 - Field Archaeology

Opportunity for students participating in non-degree credit archaeological digs to submit reports, field notes and term papers for degree credit. Not eligible for CR/NCR option. Instructions on how to obtain an application form are posted on the following website: <https://www.anthropology.utoronto.ca/undergraduate>. The application form should be submitted at least one week prior to the beginning of classes.

Prerequisite: Permission of Undergraduate Co-ordinator and Supervisor

ARH361Y0 - Field Archaeology

ARH361Y1 - Field Archaeology

Opportunity for students participating in non-degree credit archaeological digs to submit reports, field notes and term papers for degree credit. Not eligible for CR/NCR option. Instructions on how to obtain an application form are posted on the following website: <https://www.anthropology.utoronto.ca/undergraduate>. The application form should be submitted at least one week prior to the beginning of classes.

Prerequisite: Permission of Undergraduate Co-ordinator and Supervisor

ARH398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

ARH398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

ARH440H1 - Photogrammetry and 3D Analysis of Material Culture

Hours: 12L/12P/12S

With the increasing availability of powerful computers and software, 3D modeling and recording has become commonplace in archaeology, architectural history, museum studies, and other areas of cultural heritage research. In this course, students will learn about a powerful new method for 3D recording known as photogrammetry. After a series of tutorials, they will gain firsthand experience creating their own models of various subjects, such as historical architecture and public art in Toronto, and museum objects on campus. They will also learn how to analyze and present 3D content, while thinking critically about the impact of how digital tools are currently being employed by and shaping the agendas of researchers in archaeology, art history, and related fields.

Prerequisite: 1.0 credit in ANT/ ARH/ FAH courses at the 300+ level

Exclusion: ARH482H1 (Special Topics in Archaeology: 3D Modeling and Archaeological Analysis), offered in Fall 2019 and Fall 2021

Recommended Preparation: Previous experience with photography or imaging software will be helpful but is not required

Breadth Requirements: Creative and Cultural Representations (1)

ARH482H1 - Special Topics in Archaeology

Hours: 24S

Unique opportunity to explore a particular archaeological topic in-depth. Topics vary from year to year.

Prerequisite: ARH205H1/ ARH305H1

ARH494H1 - Topics in Emerging Scholarship (Archaeology)

Hours: 24S

Taught by an advanced PhD student or postdoctoral fellow, and based on his or her doctoral research and area of expertise, this course presents a unique opportunity to explore intensively a particular Archaeology topic in-depth. Topics vary from year to year.

Prerequisite: ARH205H1/ ARH305H1

Breadth Requirements: Society and its Institutions (3)

ARH495H1 - Archaeology Research Practicum

Laboratory or practical research on an archaeological project that emphasizes methods and research design in archaeology. Students must obtain the consent of a Supervisor before enrolling. Students are required to give an oral presentation of research results to an open meeting of the Archaeology Centre at the conclusion of the course. Application must be made to the Anthropology Department. Not eligible for CR/NCR option. Instructions on how to obtain an application form are posted on the following website: <https://www.anthropology.utoronto.ca/undergraduate>. The application form should be submitted at least one week prior to the beginning of classes.

Prerequisite: A minimum of 14.0 credits, permission of Supervisor and Undergraduate Coordinator.

Exclusion: ANT497Y1

Recommended Preparation: ARH205H1/ ARH305H1, ARH312Y1

Architecture and Visual Studies

Introduction

A program of the Faculty of Arts & Science and the John H. Daniels Faculty of Architecture, Landscape, and Design. If you have any questions about the programs below, please contact the Daniels faculty registrar's office at registrar@daniels.utoronto.ca.

Visual studies focus upon a critical understanding and production of art. Visual studies is set within a unique environment focusing on a rigorous investigation of the interdisciplinary and conceptual components inherent to contemporary art and curatorial practice, as well as in critical writing, theory, art history, design, and related areas requiring a high degree of visual literacy. This innovative program of study provides instruction in studio practice in combination with critical discourse involving all aspects of contemporary visual culture through lectures, studio courses, seminars, and field trips.

The Visual Studies Minor is a Faculty of Arts & Science program. Requirements are listed below. Information about electives for this program may be found in the [Daniels faculty calendar](#).

Architecture and Visual Studies Programs

Visual Studies Minor (Arts Program) - ASMIN0660

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- [JAV120H1](#) and [JAV130H1](#).

To ensure that students admitted to the program will be successful, applicants with a final grade or grade average lower than a B in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or grade average does not guarantee admission to the program.

Completion Requirements:

(4.0 credits in Visual Studies, including at least 1.0 credit at the 300-level.)

1. [JAV120H1](#) and [JAV130H1](#)
2. [JAV200H1](#) and 2.5 credits in VIS courses taken through the Daniels Faculty.

Note: Visual Studies Minor students in the Faculty of Arts & Science are not permitted to take [VIS300H0](#), [VIS403H1](#), [VIS404H1](#), [VIS405H1](#), [VIS430Y1](#), and [VIS431Y1](#).

Visual Studies Programs

The Visual Studies specialist and major programs were transferred from the Faculty of Arts & Science to the John H. Daniels Faculty of Architecture, Landscape, and Design effective September 1, 2014. Students interested in pursuing the Visual Studies specialist or major program may apply for admission to the Daniels faculty (www.daniels.utoronto.ca).

For Arts & Science students enrolled in the program before September 2014, please refer to the [relevant archived Calendar](#) for program information.

Architecture Programs

The Architectural Studies major programs were transferred from the Faculty of Arts & Science to the John H. Daniels Faculty of Architecture, Landscape, and Design effective September 1, 2012. Students interested in pursuing the major programs may apply for admission to the Daniels Faculty. For information regarding architectural studies programs and courses, please visit the Daniels website: www.daniels.utoronto.ca.

For Arts & Science students enrolled in the program before September 2012, please refer to the [relevant archived Calendar](#) for program information.

Regarding Architecture and Visual Studies Courses

Architecture and visual studies course descriptions may be found in the [Daniels faculty calendar](#). Elective courses are available for Arts & Science students.

If you have any questions about architecture or visual studies courses, please contact the Daniels faculty registrar's office at registrar@daniels.utoronto.ca.

Architecture and Visual Studies Courses

JAV120H1 - Visual Concepts

Hours: 12L/36P

An introduction to a wide range of topics situated in modernism, postmodernism, and the contemporary that inform current art practice and critical discourse. The course investigates post-1970 art practice through diverse societal, cultural, and political influences of contemporary critical thought.

Exclusion: VIS120H1

Breadth Requirements: Society and its Institutions (3)

JAV130H1 - Visual Strategies

Hours: 24L/12T

An introduction to diverse mediums and topics for exploration with an emphasis on experimentation and conceptual development. In addition to acquiring manual skills used in production of contemporary visual art, students are encouraged to explore their own individual artistic and research processes.

Prerequisite: JAV120H1/ VIS120H1

Exclusion: VIS130H1

Breadth Requirements: Creative and Cultural Representations (1)

JAV200H1 - Introduction to Critical Theory

Hours: 24L/12T

A course that teaches critical and analytical ways of engaging visual culture within an interdisciplinary and international setting. Students are introduced to foundational intellectual tools and a research methodology appropriate to artists, designers, and architects.

Exclusion: VIS200H1

Breadth Requirements: Thought, Belief and Behaviour (2)

Art History

Faculty List

Professors Emeriti

K. Andrews, MFA
 L.E. Eleen, MA, PhD
 D.S. Richardson, MA, PhD (U)
 D. Rifat, DA
 J.W. Shaw, MAT, PhD, D Hum Lett, FSA, FRSC (T)
 M.C. Shaw, MA, PhD (S)
 B. Welsh-Orcharov, MA, PhD

Professor and Chair

C. Knappett, PhD, FSA (Homer Thompson/Walter Graham Chair in Aegean Prehistory)

Associate Chair, Undergraduate Studies

P. Sapirstein, PhD (Limited Term Appointment)

University Professor

P.L. Sohm, MA, PhD (U)

Professors

C. Anderson, MA, PhD
 M.A. Cheetham, MA, PhD, FRSC (U)
 L. Kaplan, MA, PhD (University of Toronto Mississauga)
 E.M. Kavalier, MA, PhD
 C. Knappett, PhD, FSA (Homer Thompson/Walter Graham Chair in Aegean Prehistory)
 E. Levy, MFA, PhD (University of Toronto Mississauga)
 J. Ricco, MA, PhD (University of Toronto Mississauga)

Associate Professors

J. Bear, MA, PhD
 J. Caskey, MA, PhD (University of Toronto Mississauga)
 A. S. Cohen, MA, PhD
 B. C. Ewald, MA, PhD
 E. Harney, MA, PhD (University of Toronto Scarborough)
 K. Jain, MA, PhD (University of Toronto Mississauga)
 S.J. Kim, MA, MPhil, PhD
 E.M.M. Legge, MA, PhD (U)
 G. Periti, MA, PhD
 J. Purtle, MA, MPhil, PhD (U)
 A. Syme, MA, PhD (University of Toronto Mississauga)

Assistant Professors

J. Clarke, M. Arch, M Phil, PhD

Y. Gu, MA, PhD (University of Toronto Scarborough)
 M. Harakawa, MPhil, PhD
 M. Migwans, MA, PhD
 H. Mostafa, MA, PhD
 P. Sapirstein, PhD

Adjunct Professor

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 University of Toronto, Nova Scotia College of Art and Design, Ontario College of Art and Design (Hons)

Royal Ontario Museum

H. Coxon, Associate Professor, Status Only
 D. Dewan, MA, PhD, Associate Professor, Status Only
 R. Fox, MA, PhD, Assistant Professor, Status Only
 A. Gehmacher, MA, PhD, Associate Professor, Status Only
 A. Palmer, MA, PhD, Associate Professor, Status Only

Introduction

The Department of Art History offers Minor, Major, and Specialist programs in Art History (FAH).

The FAH curriculum covers art from prehistory to the present in several global regions: the Mediterranean area, Europe, the Indigenous and Colonized Americas, and Asia. [FAH101H1](#) and [FAH102H1](#) offer two different ways of acquiring the foundational skills of art history while exploring global art and architecture: the 101 previewing subject in 200-level FAH course offerings, the 102 drawing examples around a unifying theme. Taking one of these two courses is a mandatory component of the curriculum, and students are encouraged to complete this requirement early in their progress toward an FAH program. The 0.5 credit courses at the 200-level are more comprehensive surveys that introduce the material from specific chronological periods, regional areas, or the history of architecture. Many of these courses, which are offered on a regular basis, serve as “gateway” prerequisites for courses at the 300- and 400-level; students are advised to check the prerequisites for each upper-level course carefully before enrolment.

Courses in art history (FAH) are useful to students in other departments or faculties; history, literature, music, and philosophy - to name but a few examples - are likewise concerned with systems of thought and imagery. Fundamental concepts in such disciplines are embodied or reflected in related works of art of the same general period and area. Students in architecture, geography, or city planning will find courses in the history of architecture of benefit.

At the same time, the Department directs the attention of its students to the wide range of offerings in other departments and urges them to acquire the broad cultural background essential to an understanding of the arts. Of special importance are familiarity with history, a knowledge of the various traditions of literature and mythology, and an acquaintance with philosophy. Courses in cultural, historical or urban geography may also be relevant in programs that include the history of architecture. It is imperative that students interested in pursuing an advanced degree in art history acquire the foreign languages necessary for such work. Although the choice of languages will be dependent on an individual's program of study, it is generally recommended that students begin to learn German and at least one other European language. The Department website provides a [list of courses in other departments](#) that can be counted toward an art history degree; consult the Director of Undergraduate Studies to confirm the eligibility of any potentially suitable course not published there.

In conjunction with Woodsworth College, the Department offers courses during the summer term at the University of Siena, Italy, and at other locations abroad. For information about these degree-credit FAH courses, please consult the Department of Art History website or contact the Summer Abroad Program at Woodsworth College, 119 St. George Street (416-978-8713), summer.abroad@utoronto.ca

The History of Art Students' Association sponsors a variety of lectures and other activities for members of the departmental community.

Not all courses listed in this Calendar are offered every year. For more detailed information on courses and degree programs, consult the Department of Art History website at www.arthistory.utoronto.ca. Counselling is available, by appointment, from the Undergraduate Coordinator.

Enquiries:

Undergraduate Assistant, Sidney Smith Hall, Room 6036 (416-978-7892), undergrad.arthistory@utoronto.ca

Art History Programs

Art History Specialist (Arts Program) - ASSPE0908

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- 2.0 credits from FAH courses with a grade of 70% in each course

Completion Requirements:

(11.0 credits)

At least 9.0 FAH credits, and 2.0 credits in one or more languages including at least one German, French, or Italian, though an acceptable alternative modern language such as Dutch or Russian (or Chinese and/or another Asian language) may be acceptable. It is strongly recommended that students acquire a reading knowledge of German, French, or Italian by the end of the third year. Students specializing in Ancient or Medieval art should also recognize the importance of studying Greek and/or Latin. Students interested in pursuing Asian art history will need to acquire Chinese and/or Japanese and/or another Asian language.

First Year:

[FAH101H1](#)/ [FAH102H1](#)

Higher Years:

1. At least 0.5 credit from each of Groups A, B, C, and D (see below for definitions).
2. 0.5 additional credit from each of Groups A and B.
3. No more than 3.5 credits may be taken at the 200-level.
4. 3.5 credits at the 300+level
5. 1.0 credit at the 400 level. No more than 1.5 credits at the 400-level will be counted toward fulfilling program requirements.
6. Approved courses in other programs may be substituted for up to 2.0 FAH credits. See [Department website](#) for details.

In addition, the Faculty of Arts and Science requires Art History Specialists who do not complete [FAH338H1](#) to complete at least 0.5 credit in Arts and Science courses in Breadth Category 5: The Physical and Mathematical Universes.

Group A: Ancient, Medieval

[FAH205H1](#), [FAH206H1](#), [FAH207H1](#), [FAH208H1](#),
[FAH215H1](#), [FAH216H1](#), [FAH265H1](#), [FAH303H1](#),
[FAH304H1](#), [FAH307H1](#), [FAH308H1](#), [FAH309H1](#),
[FAH310H1](#), [FAH311H1](#), [FAH312H1](#), [FAH313H1](#),
[FAH314H1](#), [FAH318H1](#), [FAH319H1](#), [FAH325H1](#),
[FAH326H1](#), [FAH327H1](#), [FAH401H1](#), [FAH402H1](#),
[FAH405H1](#), [FAH406H1](#), [FAH407H1](#), [FAH415H1](#),
[FAH420H1](#), [FAH421H1](#), [FAH423H1](#), [FAH424H1](#)

Group B: Renaissance-Baroque, Modern-Contemporary-Canadian

FAH230H1, FAH231H1, FAH245H1, FAH246H1,
FAH248H1, FAH252H1, FAH255H1, FAH330H1,
FAH331H1, FAH335H1, FAH337H1, FAH338H1,
FAH340H1, FAH341H1, FAH345H1, FAH346H1,
FAH347H1, FAH348H1, FAH349H1, FAH350H1,
FAH251H1/ FAH351H1, FAH352H1, FAH353H1,
FAH354H1, FAH355H1, FAH430H1, FAH433H1,
FAH434H1, FAH436H1, FAH438H1, FAH439H1,
FAH440H1, FAH451H1, FAH446H1, FAH447H1,
FAH448H1, FAH449H1, FAH452H1, FAH457H1,
FAH458H1

Group C: Asian

FAH205H1, FAH260H1, FAH262H1, FAH360H1,
FAH363H1, FAH364H1, FAH461H1, FAH463H1,
FAH464H1, FAH465H1

Group D: History of Architecture

FAH265H1, FAH270H1, FAH272H1, FAH273H1,
FAH309H1, FAH328H1, FAH370H1, FAH371H1,
FAH373H1, FAH376H1, FAH415H1, FAH421H1,
FAH423H1, FAH470H1, FAH472H1, FAH473H1

Note: courses used to satisfy one group requirement cannot be counted toward another group requirement.

Art History Major (Arts Program) - ASMAJ0908

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(6.0 credits)

At least 6.0 FAH credits fulfilling the following distribution requirements:

First Year:

FAH101H1/ FAH102H1

Higher Years:

1. At least one 0.5 credit in three of the four FAH Groups (see below for definitions).
2. 3.0 credits at the 300+ level, including at least one 0.5 credit at the 400-level.
3. No more than 1.0 credit at the 400-level will be counted toward fulfilling program requirements.
4. Approved courses in other programs may be substituted for up to 1.0 FAH credit. See [Department website](#) for details.

In addition, the Faculty of Arts and Science requires Art History Majors who do not complete FAH338H1 to complete at least one 0.5 credit in Arts and Science courses in Breadth Category 5: The Physical and Mathematical Universes.

Group A: Ancient, Medieval

FAH205H1, FAH206H1, FAH207H1, FAH208H1,
FAH215H1, FAH216H1, FAH265H1, FAH303H1,
FAH304H1, FAH307H1, FAH308H1, FAH309H1,
FAH310H1, FAH311H1, FAH312H1, FAH313H1,
FAH314H1, FAH318H1, FAH319H1, FAH325H1,
FAH326H1, FAH327H1, FAH401H1, FAH402H1,
FAH405H1, FAH406H1, FAH407H1, FAH415H1,
FAH420H1, FAH421H1, FAH423H1, FAH424H1

Group B: Renaissance-Baroque, Modern-Contemporary-Canadian

FAH230H1, FAH231H1, FAH245H1, FAH246H1,
FAH248H1, FAH252H1, FAH255H1, FAH330H1,
FAH331H1, FAH335H1, FAH337H1, FAH338H1,
FAH340H1, FAH341H1, FAH345H1, FAH346H1,
FAH347H1, FAH348H1, FAH349H1, FAH350H1,
FAH251H1/ FAH351H1, FAH352H1, FAH353H1,
FAH354H1, FAH355H1, FAH430H1, FAH433H1,
FAH434H1, FAH436H1, FAH438H1, FAH439H1,
FAH440H1, FAH446H1, FAH447H1, FAH448H1,
FAH449H1, FAH451H1, FAH452H1, FAH457H1,
FAH458H1

Group C: Asian

FAH205H1, FAH260H1, FAH262H1, FAH360H1,
FAH363H1, FAH364H1, FAH461H1, FAH463H1,
FAH464H1, FAH465H1

Group D: History of Architecture

FAH265H1, FAH270H1, FAH272H1, FAH273H1,
FAH309H1, FAH328H1, FAH370H1, FAH371H1,
FAH373H1, FAH376H1, FAH415H1, FAH421H1,
FAH423H1, FAH470H1, FAH472H1, FAH473H1

Note: courses used to satisfy one group requirement cannot be counted toward another group requirement.

Art History Minor (Arts Program) - ASMIN0908

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

At least 4.0 FAH credits fulfilling the following distribution requirements:

1. FAH101H1/ FAH102H1
2. At least one 0.5 credit in two of the four FAH Groups (see below for definitions).
3. At least one 1.0 credit at the 300-level.

Group A: Ancient, Medieval

FAH205H1, FAH206H1, FAH207H1, FAH208H1, FAH215H1, FAH216H1, FAH265H1, FAH303H1, FAH304H1, FAH307H1, FAH308H1, FAH309H1, FAH310H1, FAH311H1, FAH312H1, FAH313H1, FAH314H1, FAH318H1, FAH319H1, FAH325H1, FAH326H1, FAH327H1, FAH401H1, FAH402H1, FAH405H1, FAH406H1, FAH407H1, FAH415H1, FAH420H1, FAH421H1, FAH423H1, FAH424H1

Group B: Renaissance-Baroque, Modern-Contemporary-Canadian

FAH230H1, FAH231H1, FAH245H1, FAH246H1, FAH248H1, FAH252H1, FAH255H1, FAH330H1, FAH331H1, FAH335H1, FAH337H1, FAH338H1, FAH340H1, FAH341H1, FAH345H1, FAH346H1, FAH347H1, FAH348H1, FAH349H1, FAH350H1,

FAH251H1/ FAH351H1, FAH352H1, FAH353H1, FAH354H1, FAH355H1, FAH430H1, FAH433H1, FAH434H1, FAH436H1, FAH438H1, FAH439H1, FAH440H1, FAH446H1, FAH447H1, FAH448H1, FAH449H1, FAH451H1, FAH452H1, FAH457H1, FAH458H1

Group C: Asian

FAH205H1, FAH260H1, FAH262H1, FAH360H1, FAH363H1, FAH364H1, FAH461H1, FAH463H1, FAH464H1, FAH465H1

Group D: History of Architecture

FAH265H1, FAH270H1, FAH272H1, FAH273H1, FAH309H1, FAH328H1, FAH370H1, FAH371H1, FAH373H1, FAH376H1, FAH415H1, FAH421H1, FAH423H1, FAH470H1, FAH472H1, FAH473H1

Note: courses used to satisfy one group requirement cannot be counted toward another group requirement.

Art History Courses

FAH101H1 - Monuments of Art History

Hours: 20L/10T

An introduction to the arts and architecture from antiquity to the present day which emphasizes the deep connection between art and history. This broad overview will examine carefully a selection of works, including real objects and buildings in Toronto, which are representative of the upper-level courses currently offered by the Art History faculty. Special attention is paid to developing essential art historical skills, including the ability to look at, analyze, and write about works of art and architecture. Tutorials provide training in and experience applying the basic principles and vocabulary employed in art-historical scholarship. Frequent short writing assignments and exercises will be based on readings, lectures, and museum or gallery visits to collections in Toronto. No previous knowledge of history of art or architecture is required.

Exclusion: FAH101H5

Breadth Requirements: Creative and Cultural Representations (1)

FAH102H1 - Art and Ideas

Hours: 24L/6T

A survey of the history of art, architecture and allied arts. This introduction to the history of art will examine a wide range of objects, selected and discussed in connection

with a special theme to be selected by the instructor. Students will be expected to study the history and significance of art through the close reading of selected texts that relate to both art and theory. Special attention will be given to developing essential art historical skills necessary for upper level courses. The topic for each semester will vary based on the instructor. No previous knowledge of history of art or architecture is required. Frequent writing assignments and exercises will be based on readings, lectures, and museum or gallery visits to collections in Toronto.

Exclusion: FAH101H5

Breadth Requirements: Creative and Cultural Representations (1)

FAH194H1 - Public Art: Local and Global

Hours: 24S

We are surrounded by public art, whether in the form of official commemorative monuments or ephemeral (some say illegal) street art. We will examine the history and current practice of this important art form in Toronto and by comparison, globally. The focus will be on discussing the nature, roles, and issues pertaining to contemporary public art that we can see in situ in downtown Toronto. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FAH195H1 - On Foot: From Pilgrimage to the Mobile City

Hours: 24S

Walking is a basic human activity, yet it also defines and shapes us. In order to understand the permutations of this seemingly simple activity we will look at walking in a variety of contexts through the study of texts, art, movies and the built environment. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FAH196H1 - Marco Polo's World

Hours: 24S

This course explores the visual and material worlds of the Italian traveller Marco Polo, which are described in his *Travels*. Together we will read sections of this text and explore their meaning with respect to the objects and monuments of Marco Polo's time from the regions to which he travelled. By studying cartography, art, architecture, and urban form in the expansive medieval world of Marco Polo, the course will introduce us to the global world of the Middle Ages. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FAH197H1 - Classical Art from Greek Gods to Roman Gladiators

Hours: 24S

The ancient Greeks and Romans lived in a world full of images. Ancient visual culture comprises not only the high arts but also the everyday. This course is meant to introduce students to key ideas about how art and images in general impacted the life of ancient Greeks and Romans. Students will learn to examine various categories of visual material ranging from the pictorial and applied arts (painting, sculpture, architecture) to everyday artifacts (for example, domestic wares, jewelry or weapons). Through a series of discussion-centred seminar sessions students will explore the interconnections between art and ideology, art and identity as well as visibility and viewing. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FAH198H1 - Shocking Artists, Shocking Art

Hours: 24S

Art causes scandals for many reasons, provoking a range of consequences, including censorship, cuts to government funding of the arts or even destruction of the work in question. In this course we will consider a number of kinds of art scandal arising from exhibition in public galleries and urban spaces, including those that have to do with legal issues such as plagiarism and vandalism; aesthetic objections on the part of the public, ranging from perceived obscenity to simple resentment of abstract art; racism; sacrilege; and political subversion, amongst others. We will consider the work of artists including Chris Ofili, Joep van Lieshout, Paul McCarthy, Damien Hirst, Michael Snow, Sally Mann, Banksy, Rachel Whiteread, Richard Prince, Andres Serrano, Robert Mapplethorpe, Carl Andre, Maya Lin, and Jeff Koons, amongst others. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FAH199H1 - Architecture of Toronto

Hours: 24S

The architecture of Toronto is characterized by artful and influential monuments as well as stylistically incoherent neighbourhoods, vibrant civic spaces alongside dysfunctional infrastructure. This course investigates how Canada's national metropolis came to embody such extremes of architectural richness and urban contradictions. The seminar focuses on how to "read" the buildings of Toronto and think critically about the forces that have shaped city planning, monuments, public space, and concepts of heritage. Readings and discussions will be combined with field trips, research on site or in the archives, and direct engagement with local communities and preservation initiatives. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FAH205H1 - Clay: A Material and Visual History

Hours: 24L

This course will reveal the deep history of clay, stretching back to the Palaeolithic period with the first clay figurines; through the Neolithic period with its extensive use of clay

for the earliest permanent houses, the first inorganic containers, and many votive offerings in clay; all the way to the present day with the ceramic art of Pablo Picasso, Grayson Perry, and Ai Weiwei. Our approach will also be thoroughly global, ranging from the Maya of Mesoamerica to the Mingei of Japan. The course will involve hands-on elements too, particularly with the nearby Gardiner Museum of Ceramic Art.

Recommended Preparation: FAH101H1/ FAH102H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH206H1 - Prehistoric Aegean and East Mediterranean Art and Archaeology

Hours: 24L

An overview of the major monuments, artifacts, themes and problems in the study of the archaeology, art and architecture of the Aegean region and the east Mediterranean to 1000BC.

Breadth Requirements: Creative and Cultural Representations (1)

FAH207H1 - Greek and Roman Art and Archaeology

Hours: 24L

An overview of the major monuments, artifacts, themes and problems in the study of the archaeology, art and architecture of the civilizations of Greece and Rome.

Breadth Requirements: Creative and Cultural Representations (1)

FAH208H1 - Heroes of the Classical World

Hours: 24L

This course is an introductory level study of Greek and Roman Art, explored through the concept of the hero. The course surveys the representations of mythological heroes as well as historical individuals who comply with the notion of hero in Greek and Roman cultures (warriors, athletes, political leaders, etc.). Examining their religious, civic and political contexts allows students to learn how visual culture deals more broadly with larger issues within the respective ancient societies. Readings are drawn from an array of primary and secondary sources both art historical

and literary, and the visual exploration of certain mythological narratives teaches how stories are conveyed in the art of Greece and Rome. Basic issues of style and art historical development of the period are also addressed, as are various theories regarding the notion of the hero. This course provides ample opportunity to reflect upon ancient heroes' contemporary relevance, through various assignments and group projects.

Recommended Preparation: Familiarity with Greek mythology

Breadth Requirements: Creative and Cultural Representations (1)

FAH215H1 - Early Medieval Art and Architecture

Hours: 24L

An overview of major monuments and themes in the art and architecture of Western Europe and the Byzantine East from the third until the eleventh century.

Exclusion: FAH215H5/ VPHB53H3

Breadth Requirements: Creative and Cultural Representations (1)

FAH216H1 - Later Medieval Art and Architecture

Hours: 24L

An overview of major monuments and themes in the art and architecture of Western Europe and the Byzantine East from the eleventh until the fifteenth century.

Exclusion: FAH216H5/ VPHB53H3

Breadth Requirements: Creative and Cultural Representations (1)

FAH230H1 - Renaissance Art and Architecture

Hours: 24L

A selective survey of the major art centres and types of artistic and architectural production in Italy and northern Europe, from the early fifteenth century to the mid-sixteenth. Themes include the relations--artistic, economic and ideological--between northern and southern Europe during this period, the changing role of art in religious life, the emergence of secular themes, and the legacies left by Renaissance art to modern life and culture.

Exclusion: [FAH274H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH231H1 - Baroque Art and Architecture

Hours: 24L

Major forms of expression in the visual arts ca. 1600 - ca. 1750 with particular attention to forms, techniques, theories, and patronage of the arts as well as biographies of artists in Italy, France, the Netherlands, Flanders, Germany and England.

Exclusion: [FAH279H5](#)/ [VPHB64H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH245H1 - Modernism and anti-Modernism, c. 1750-1900

Hours: 24L

An introduction to the advent and development of art movements including Rococo and Neoclassicism; Romanticism and Revolution, Realism and the advent of Photography, Impressionism; Academic art; Post-Impressionism.

Exclusion: [FAH287H5](#)/ [VPHB58H3](#)

Recommended Preparation: [FAH101H1](#)/ [FAH102H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH246H1 - Art Since 1900

Hours: 24L

An introduction to the consolidation of Modernist tendencies in Europe to the mid 20th century and to the many contemporary responses to these achievements. Individual artists, including Picasso, Matisse, Duchamp, and Matthew Barney are considered in their relationship to various art movements and the theories that supported them, including Expressionism; Abstraction and Constructivism; Dada and Surrealism; Neue Sachlichkeit; Abstract Expressionism; Pop; Conceptual Art; Earth Art; Feminist Art; Postmodernism; New Media Art.

Exclusion: [FAH288H5](#)/ [FAH289H5](#)/ [VPHB58H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH248H1 - Canadian Painting 1665-1960

Hours: 24L

An introductory survey of the history of painting in Canada from the 17th to the 20th century.

Exclusion: [FAH292H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH251H1 - Black Art in North America

Previous Course Number: FAH351H1

Hours: 24L

This introductory course will survey the interrelated history of Blackness and artistic production in the United States, Mexico, the Caribbean, and Canada. Starting in the eighteenth century with the advent of the transatlantic slave trade and covering up to Black Lives Matter movement, the course proceeds chronologically and considers the Black Art within its larger social context. By discussing the aesthetic qualities of artworks and the careers of Black artists alongside of the history of anti-Black racism in North America, we will explore both how the visual has been used as a tool of domination and how art can challenge or subvert racist ideologies. At the end of the course, students will be familiar with the primary figures, debates, and works of art that constitute the field. They will also be comfortable discussing the history anti-Black racism and its current manifestations. Topics include: the visual culture of slavery and abolition, hemispheric and transatlantic modernisms, the racial politics of "outsider" and "folk" art, the Black Arts Movement, and art and mass incarceration.

Exclusion: [FAH351H1](#), and [FAH280H1](#) (Special Topics in Art History: *Black Art in North America*) offered in Fall 2022.

Recommended Preparation: [FAH101H1](#)/ [FAH102H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH252H1 - Introduction to the History of Photography

Hours: 24L

This course surveys the history of photography in Europe and North America, from its origins to recent innovations in digital imaging. Emphasis is placed on the various aesthetic, scientific, and political discourses in which photography has been located, and the assumptions and

premises associated with the medium's relationship to reality.

Exclusion: FAH291H5/ FAH352H1

Recommended Preparation: FAH101H1/ FAH102H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH255H1 - Art of Indigenous North America

Hours: 24L

A broad survey of Indigenous arts in North America from Mexico to the Arctic, and from ancient to modern. Students will gain a basic literacy in key artforms including painting, architecture, basketry and more, grounded in an awareness of Indigenous realities and historical currents.

Exclusion: FAH275H5

Breadth Requirements: Creative and Cultural Representations (1)

FAH260H1 - The Artistic Landscape of East Asia

Hours: 24L

An overview of major monuments and themes in the art and architecture of East Asia (China, Japan, Korea, Vietnam, Mongolia and Tibet), from the Neolithic to the present.

Exclusion: VPHB73H3

Breadth Requirements: Creative and Cultural Representations (1)

FAH262H1 - Art and Visual Experience in Modern and Contemporary East Asia

Hours: 24L

An overview of major monuments and themes in the art and architecture of East Asia (China, Japan, Korea, Vietnam, Mongolia and Tibet) and its diaspora in the nineteenth and twentieth centuries.

Exclusion: VPHB77H3

Breadth Requirements: Creative and Cultural Representations (1)

FAH265H1 - Monuments of the Islamic World

Hours: 24L

This course explores the architecture of the Islamic world from the 7th - 12th centuries through the lens of its major monuments throughout the central Islamic lands, North Africa and Spain. Through an emphasis upon the Umayyad, Abbasid, Fatimid and Seljuk periods, the course explores the range of cultural, political, social and religious aspects related to the development of the built environment. It also considers the impact of Islam's encounter with late antiquity and aims to position the rise of Islamic architecture within the context of this encounter. Additionally, the architecture is contextualized through a study of the urban history of select early and medieval Islamic cities.

Breadth Requirements: Creative and Cultural Representations (1)

FAH270H1 - Architecture: Rituals and Monuments

Hours: 24L

A survey of architecture from pre-history to the start of modernism, with attention given to the ways in which architecture shapes human experience.

Breadth Requirements: Creative and Cultural Representations (1)

FAH272H1 - Modern Architecture from 1750 to the Present

Hours: 24L

An introduction to the buildings, issues and ideas from Neoclassicism to the present.

Breadth Requirements: Creative and Cultural Representations (1)

FAH273H1 - Canada Buildings and Landscapes

Hours: 24L

An introduction to the traditions and patterns of building in Canada taking into account the unique landscapes, resources and history that comprise what is now a unified

political entity. Lectures will pay special attention to the complexity of architecture throughout Canada including issues of land rights, natural resources, immigration, settlements and urban design, transportation, and heritage issues. A special feature of this class will be the opportunity to study Toronto first-hand through class projects. No previous architectural history study is required.

Breadth Requirements: Creative and Cultural Representations (1)

FAH280H1 - Special Topics in Art History

Hours: 24L

The thematic study of various aesthetic, cultural, social, political, and theoretical aspects of global art and photography.

Recommended Preparation: Any course in the Humanities or Social Sciences

Breadth Requirements: Creative and Cultural Representations (1)

FAH299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

FAH303H1 - Emergence of Greek Civilisation

Hours: 24L

This course investigates the material culture, art and architecture of the Aegean civilizations from the Neolithic through to the building of the palaces of Crete around 2000BC.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH206H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH304H1 - Architecture of Ancient Greece

Hours: 24L

In this course we will survey the history of Greek architecture and its impact on the buildings of the ancient Mediterranean. Chronologically, we will begin in the latter second millennium BCE, examining the consequences of the collapse of Mycenaean society on Greek building, after which we will examine the synthesis and dissemination of exciting new forms of monumental building at Greek sanctuaries and cities during the Archaic and Classical periods (ca. 700–350/323 BCE). We will conclude with the developments of the Hellenistic period, the era of eastern Mediterranean empires when architectural patronage is increasingly dominated by Greek and Hellenized royalty. Along the way, the course will examine topics such as the interpretation of meaning in Greek buildings and their sculptural decoration, the origins of building technologies, the interaction of Greek and non-Greek architects and builders, and the reception of Greek architectural forms within non-Greek contexts throughout the Mediterranean.

Prerequisite: 1.0 FAH credit at any level/ [CLA210H1](#)/ [CLA220H5](#)

Exclusion: [FAH380H1](#) (offered as "Greek Architecture") taken in Winter 2020 and 2022

Recommended Preparation: [FAH205H5](#)/ [FAH206H1](#)/ [FAH207H1](#)/ [FAH208H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH307H1 - Ancient Art, Migration, and the Barbarian 'Other'

Hours: 24L

This course surveys the cultural, artistic and social interactions between the Graeco-Roman world and the so-called 'Barbarians' beyond its eastern and northern confines. Chronologically, it spans from the Greek Geometric and Archaic periods (9th - 6th c. BCE) to the disintegration of the Western Roman Empire and the emergence of Early Medieval Europe (6th- 7th c. CE). The course will address issues of artistic production, material culture, ritual and cult in relation to the mobility of peoples and groups, objects and individuals.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH205H5](#)/ [FAH207H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH308H1 - City of Athens: Art, Politics and Society

Hours: 24L

This course provides a detailed investigation of the city of Athens, focusing on the art, architecture and archaeology in the later Archaic and Classical Period. A combination of topographical and chronological approach is taken to familiarize the students with both the physical cityscape as well as its development in the context of major areas of interest, such as politics, religion and social customs. Some broad themes explored include: art, democracy and propaganda (Agora), the impact of the Persian wars, ritual and religious festivals (Acropolis), the symposium, Athenian women, funerary art (Kerameikos), cult, sanctuaries and votives, art and Athenian drama. The course will also feature digital humanities components in the assignments, which may involve spatial mapping, 3D tools/VR and/or databases, as well as a trip to the Royal Ontario Museum.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH205H5/ FAH207H1/ FAH208H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH309H1 - City of Rome

Hours: 24L

The art, architecture and archaeology of the city of Rome to AD476.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH205H5/ FAH207H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH310H1 - Greek Vase Painting

Hours: 24L

This course is a comprehensive exploration of the art of Greek vase painting, covering material from the late Geometric period (8th C. BCE) to the late Classical Period (4th C. BCE). While iconography and narrative will form a major portion of the content, the class will also explore issues surrounding material and technique, the prevalent sympotic (drinking) culture and Greek rituals that provides the cultural framework, dynamics of trade, theories of viewership and semiotics, status of the artist, and other historiographical concerns, including problematic issues surrounding the modern practice of collecting.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH205H1/ FAH205H5/ FAH207H1/ FAH208H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH311H1 - Greek Sculpture

Hours: 24L

The course provides a thorough examination of ancient Greek sculpture from 7th - 1st century BCE, which in many ways defined the canon of western art that was to follow. Classic issues of style, dating, and technique are complemented by putting them into the contexts of cultural history, religion and socio-politics. While the course is a traditional monument-based survey of major sculptural works from the ancient Greek world, several important issues are also addressed, pertaining both to contemporary society and the study of other areas of art history. These include but are not limited to: gender, social class, colonialism, notion of the artist, originality, and aesthetic theory.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH205H5/ FAH207H1/ FAH208H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH312H1 - Art of the Hellenistic Age

Hours: 24L

Transformation in the visual arts, paintings, sculpture, and mosaics of the expanding Greek world c. 400BC to c. 100BC; the response to Hellenization from the new artistic centres of Asia Minor and Italy.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH205H5/ FAH207H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH313H1 - Greek Myth in Ancient Art

Hours: 24L

A general introduction to Greek mythology and its uses (and abuses) by the Greeks and Romans through the art of antiquity. Students will learn about gods and goddesses, heroes and heroines, their attributes and stories which constituted the subjects of (not only) ancient art.

Corequisite: 1.0 FAH credit

Exclusion: CLA204H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH314H1 - Eroticism in Ancient Art

Hours: 24L

Erotic 'imagery' – sculptures, reliefs, paintings – is ubiquitous in ancient art, to a degree that modern viewers have often found disturbing. This course faces the challenge posed by the ancient predilection for such imagery and explores it from a critical and scholarly perspective. At its most basic level, it reassigns a seemingly universal segment of human 'nature' and experience to the realm of culture, by examining the imagery against the background of ancient constructions of sexuality, gender and the body. But it also explores the libidinal and hedonic structure of the works of art themselves and asks for the functions of erotic imagery in its respective contexts. The course will avail itself of the excellent research on gender, sexuality and eroticism in antiquity that has been produced over the past few decades, and it will also explore the topic's lateral connections with the thematic fields of ancient humour, the 'grotesque', apotropaism, myth and magic.

Prerequisite: 1.0 FAH credit

Recommended Preparation: FAH205H5/ FAH207H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH318H1 - Monastic Art and Architecture

Hours: 24L

An examination of the role played by monks and nuns in the creation and use of art and architecture in the Middle Ages.

Prerequisite: 1.0 FAH credit

Recommended Preparation: FAH215H1/ FAH215H5/ FAH216H1/ FAH216H5/ VPHB53H3

Breadth Requirements: Creative and Cultural Representations (1)

FAH319H1 - Illuminated Manuscripts

Hours: 24L

A focused survey of different types of manuscripts and their images from the origins of the book in Late Antiquity to the invention of printing.

Prerequisite: 1.0 FAH credit

Recommended Preparation: FAH215H1/ FAH215H5/ FAH216H1/ FAH216H5/ VPHB53H3

Breadth Requirements: Creative and Cultural Representations (1)

FAH325H1 - Urban Islam

Hours: 24L

By challenging essentialist questioning of Islamic urbanism, this course considers the inter-animated and complex web of forces that drive cities forward by identifying repertoires of underlying logic. Through a deep and historically situated reading of Medieval Mecca, Medina, Damascus, Jerusalem, Baghdad, Cairo, and Cordoba, we will map and encode history on the urban scale to reveal what makes a city "Islamic." Visual mapping skill cultivation for communication purposes (both digital and analogue) will be taught throughout to enhance understandings of urban complexity in rich historical contexts.

Prerequisite: 1.0 FAH credit

Recommended Preparation: FAH265H1/ FAH326H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH326H1 - Cultural History of Islamic Spain

Hours: 24L

From its earliest beginnings as an Umayyad province and up until the 15th century, al-Andalus acted as a lynch pin within the Mediterranean world. Connecting the Islamic empire in the East and forging links of trade and cultural exchange with Europe to the West, cities such as Cordoba and Granada captured the imagination of contemporary chroniclers, earning descriptions in the sources as truly "first-rate places". Through an exploration of the historical, artistic, architectural, urban, social and economic contexts, this course will engage with and expand upon current understandings of this seminal period in Islamic history to examine Islam's encounters and modes of cultural exchange with Europe and the Mediterranean world.

Prerequisite: 1.0 FAH credit

Breadth Requirements: Creative and Cultural Representations (1)

FAH327H1 - Secular Art and Architecture of the Middle Ages

Hours: 24L

A consideration of art and architecture made for the court, the aristocracy, and other patrons outside the realm of the Christian church.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH215H1](#)/ [FAH215H5](#)/
[FAH216H1](#)/ [FAH216H5](#)/ [VPHB53H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH328H1 - Gothic Cathedral

Hours: 24L

An examination of the Gothic cathedral from its origins in Paris in the 1130's through its development and elaboration in France, England and Italy. This course also considers monumental decorations in painted glass, wall painting, tapestry and portal sculpture.

Prerequisite: 1.0 FAH credit

Exclusion: [FAH351H5](#)

Recommended Preparation: [FAH215H1](#)/ [FAH215H5](#)/
[FAH216H1](#)/ [FAH216H5](#)/ [VPHB53H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH330H1 - German Art and Architecture in the Age of Dürer

Hours: 24L

Albrecht Dürer and the painting and printmaking of his contemporaries. Consideration of the great Hall churches of Saxony and the altarpieces of Tilman Riemenschneider and his contemporaries; the status of the arts and attitudes towards Italian art, and the consequences of the Reformation for religious imagery.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH230H1](#)/ [FAH274H5](#)/
[VPHB74H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH331H1 - Netherlandish Renaissance Art and Culture

Hours: 24L

The Netherlands had become one of Europe's most fertile artistic cultures by the sixteenth century. Hieronymus Bosch and Pieter Bruegel are famous today for their paintings of Hell and peasant life. Other painters introduced mythological and erotic subject matter, while practitioners in the other arts were perhaps even more widely known. Netherlandish sculptors created the tombs of northern European rulers, defining their public identity in the communal space of church and chapel. Miniature carved altarpieces helped guide modes of private devotion and were widely imitated from Italy to Scandinavia. Netherlandish tapestries broadcast the heroic deeds of the Caesars and the patriarchs in the palaces of kings and high nobles as prototypes for their reigns. We will examine the rise of the Renaissance manner in northern Europe, the role of the religious arts, the ideology of urban culture, the consequences of the Reformation and iconoclasm, the functions of various species of portraiture, and the particular properties of different media, while dedicating much attention to Bosch and Bruegel. And we will concentrate on the sixteenth century, the era in which the Netherlands was closely linked to the rest of Europe, from Italy to Sweden, from England to Ukraine.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH230H1](#)/ [FAH274H5](#)/
[VPHB74H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH335H1 - The Art of Love in the Renaissance

Hours: 24L

Love is studied not only as a favorite theme of Renaissance art, but as the basis of some of its fundamental aesthetic claims. The question of love connects Renaissance art to important strains of philosophical thought and religious spirituality, as well as to some urgent realities of social life.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH230H1](#)/ [FAH274H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH337H1 - Rivalry, Imitation and Envy in Italian Renaissance Art

Hours: 24L

This course examines works in different art media, including painting, sculpture and prints, produced from 1400 to 1600, discussing how artistic practice of imitation and emulation stimulated the development of individual styles. In addition, this course addresses notions of

disruptive rivalry, and the representation of slander and envy.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH230H1/ FAH274H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH338H1 - Art and Consumers in the Renaissance (1400-1700)

Hours: 24L

It has long been said that the material culture of the Renaissance generated the first stir of consumerism with a variety of artifacts produced from 1400 to 1700 in Italy. This course explores the material culture of Renaissance consumerism and discusses the production and function of works in different art media.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH230H1/ FAH231H1/ FAH274H5/ FAH279H5/ VPHB64H3/ VPHB74H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH340H1 - 17th-Century Art of the Netherlands

Hours: 24L

Concentration on the major painters of Holland's Golden Age, ca. 1580-ca. 1700. Particular attention is paid to genre painting and the notion of "Dutch realism." Consideration of art within its social and political contexts. Notions of gender, of the historical past, of embodiment, and of contact with the non-western world will be discussed.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH230H1/ FAH231H1/ FAH274H5/ FAH279H5/ VPHB64H3/ VPHB74H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH341H1 - Venetian Renaissance Art and Architecture

Hours: 24L

Form and meaning, theory and practice of painting and architecture in Venice, ca. 1450-ca. 1600. Social, political and cultural contexts of making and viewing art, including

works by Giorgione, Titian, Veronese, Tintoretto and Palladio.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH230H1/ FAH231H1/ FAH274H5/ FAH279H5/ VPHB64H3/ VPHB74H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH345H1 - The Romantic Movement in French Art

Hours: 24L

This course explores the painting, sculpture, and graphic arts of the Romantic era in France, from about 1820 to 1850. Major emphasis on Gericault, Delacroix, and Ingres in their artistic, cultural, and political context. Key topics in Romanticism, including Orientalism and gender, are also explored.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH245H1/ FAH287H5/ VPHB58H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH346H1 - Impressionism

Hours: 24L

The origin and development of Impressionism in France and Europe, 1860-1886, in its social, political and intellectual context. Painting, graphics and sculpture by Monet, Renoir, Degas, Pissarro, Sisley, Cassatt and Morisot.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH245H1/ FAH287H5/ VPHB58H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH347H1 - Cubism and Related Movements

Hours: 24L

An investigation of the birth and development of Cubism, Futurism and Orphism in Europe and North America.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH245H1/ FAH246H1/ FAH287H5/ FAH288H5/ VPHB58H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH348H1 - The Dada and Surrealist Tradition

Hours: 24L

The origins and development of the Dada and Surrealist movements in early 20th-century Western art, and their lasting impact on art after World War II. Painting, sculpture, graphic arts, and the theoretical preoccupation which accompanied artistic production.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH246H1/ FAH288H5/ VPHB58H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH349H1 - Abstraction in Twentieth-Century Art

Hours: 24L

The origins, development, and critical issues pertaining to abstract or non-figurative modes of art as manifested in painting, sculpture and other selected media up to the present time. Movements include European abstract art before World War II as well as post-war developments.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH246H1/ FAH288H5/ FAH289H5/ VPHB58H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH350H1 - Minimalism

Hours: 24L

An investigation of the different definitions and issues of minimal art including seriality, materials, process, objecthood, chance, installation, reception, relations to music and film, and the influence of structuralism.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH246H1/ FAH288H5/ FAH289H5/ VPHB58H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH352H1 - 19th Century Photography

Hours: 24L

An introduction to the major artists, movements, and debates in photography in Europe and North America, from its prehistory to the turn of the century. Issues considered include the relationship of social class to aesthetics, the role of illusion, the rise of mass reproduction.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH245H1/ FAH287H5/ VPHB58H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH353H1 - On Display: Cultures of Exhibition, 1789-1900

Hours: 24L

Examination of the historical development of the cultures of exhibition in Nineteenth-Century Europe, and the diversity of venues displaying works of art and nature. Historical and theoretical overview is complemented by case studies which include investigations of private cabinets of curiosity, encyclopedic museums, commercial galleries, side-shows, and world's fairs.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH245H1/ FAH252H1/ FAH287H5/ FAH291H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH354H1 - Art in Canada Since the 1960s

Hours: 24L

An examination of the visual arts in Canada from the 1960's to the present. A large and diverse range of media, practices, artists, and theoretical contexts will be examined. Emphasis is placed on work that can be seen in the original.

Prerequisite: 1.0 FAH credit

Breadth Requirements: Creative and Cultural Representations (1)

FAH355H1 - Landscape to EcoArt

Hours: 24L

Ecological art is a focus in contemporary global art. We examine ecoart's antecedents in the landscape genre and Earth Art and the diverse theoretical and disciplinary perspectives that inform our understanding of these movements. Artists include Burdick, Eliasson, Long, Mendieta, Netco, Smithson, Turrell. Readings include Deleuze, Heidegger, Latour.

Prerequisite: 1.0 FAH credit

Breadth Requirements: Creative and Cultural Representations (1)

FAH360H1 - World of the Senses: Chinese Decorative Arts

Hours: 24L

This course surveys late imperial Chinese decorative arts from the Song (960-1127) through Qing (1644-1911) dynasties. It focuses on ceramics/porcelain, textiles, and furniture, attending especially to works in Toronto collections. Students will read primary and secondary sources to learn how decorative arts shaped daily life in imperial China.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH260H1](#)/ [VPHB73H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH363H1 - The Mechanics of the Image in China

Hours: 24L

East Asian images differ from Western ones in material support, format, and technologies of image-making. This course probes how East Asian images -- painting on objects, handscrolls, prints, optical media, film, and new media -- work.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH260H1](#)/ [FAH262H1](#)/ [VPHB73H3](#)/ [VPHB77H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH364H1 - Visual South Asia

Hours: 24L

An overview of the visual culture (monuments to films) of South Asia from the Indus Valley Civilization (3500 BCE) to the contemporary. Focus on visual literacy, stylistic

evolution, major concepts and the first-hand study of objects.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH260H1](#)/ [FAH262H1](#)/ [VPHB73H3](#)/ [VPHB77H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH370H1 - European Renaissance Architecture

Hours: 24L

Architecture and architectural theory ca. 1400 – ca. 1600.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH230H1](#)/ [FAH270H1](#)/ [FAH274H5](#)/ [VPHB74H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH371H1 - Architecture and Urbanism in Baroque Europe

Hours: 24L

Architecture studied through its various building types and in its urban context. Themes include architecture and power under Absolutism, and the rise of the modern city.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH231H1](#)/ [FAH270H1](#)/ [FAH279H5](#)/ [VPHB64H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH373H1 - Modern Architecture Since 1890

Hours: 24L

In-depth examination of the modern movement in architecture, with particular focus on European avant-gardes of the early twentieth century. Emphasis on close reading of buildings, architectural research methods, and writing skills.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH272H1](#)/ [FAH273H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH380H1 - Special Topics in Art History

Hours: 24L

The study of various aesthetic, cultural, social, political, and theoretical aspects of art and photography across the centuries.

Prerequisite: 1.0 FAH credit

Breadth Requirements: Creative and Cultural Representations (1)

including discussion of varied approaches such as formalism, connoisseurship, post-colonialism, feminism, queer studies, psychoanalysis, and material studies. The course explores the relationship of art history to other disciplines including archaeology, literary criticism, film studies, and anthropology. Suggested for all Specialists and students considering graduate study in art history.

Prerequisite: 2.0 FAH credits

Exclusion: [FAH388H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH381H1 - Problems in Jewish Art

Hours: 24L

This course investigates the changing definition of Jewish art and the status of Jewish artists. Other issues explored include Jewish-Christian visual polemics, the construction of individual and communal Jewish identity through art, architecture, and texts, and the conceptual transformation of Jewish craft and ritual objects into art.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH102H1](#), 0.5 FAH credit at the 200 level

Breadth Requirements: Creative and Cultural Representations (1)

FAH390Y0 - Studies Abroad in Spanish Art and Architecture

Hours: 24L

Through site visits and local resources, this course looks at the history of Spanish art and architecture, including the various work created by the diverse religious and political groups of the Iberian peninsula. The specific focus of the course may vary from year to year.

Prerequisite: 1.0 FAH credit

Breadth Requirements: Creative and Cultural Representations (1)

FAH382H1 - Art Writing

Hours: 12L/12P

Study and practice in the variety of writing genres and styles associated with art history and contemporary criticism. Students will develop skills in writing for museum exhibitions and publications, reviews and criticism, academic analysis, and writing for popular print and media. Regular and frequent writing assignments. Recommended for FAH majors and specialists.

Prerequisite: 1.0 FAH credit

Exclusion: [VPHC54H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH391Y0 - Studies Abroad in Ancient Art and Architecture

Studies Abroad in Ancient Art and Architecture. Not eligible for CR/NCR option.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH206H1](#)/ [FAH207H1](#)/ [FAH208H1](#)/ [FAH205H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH392Y0 - Studies Abroad in Medieval Art and Architecture

Studies Abroad in Medieval Art and Architecture. Not eligible for CR/NCR option.

Prerequisite: 1.0 FAH credit

Recommended Preparation: [FAH215H1](#)/ [FAH215H5](#)/ [FAH216H1](#)/ [FAH216H5](#)/ [VPHB53H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

FAH388H1 - Art History Theories and Practices

Hours: 24L

Investigates the development of art and architectural history as an academic discipline and method of analysis

FAH393Y0 - Studies Abroad in Renaissance and Baroque Art and Architecture

Studies Abroad in Renaissance and Baroque Art and Architecture. Not eligible for CR/NCR option.

Prerequisite: 1.0 FAH credit

Recommended Preparation: FAH230H1/ FAH231H1/ FAH274H5/ FAH279H5/ VPHB64H3/ VPHB74H3

Breadth Requirements: Creative and Cultural Representations (1)

FAH394Y0 - Studies Abroad in Modern and Contemporary Art and Architecture

Studies Abroad in Modern and Contemporary Art and Architecture.

Prerequisite: 1.0 FAH credit

Recommended Preparation: FAH245H1/ FAH246H1/ FAH287H5/ FAH288H5/ VPHB58H3

Breadth Requirements: Creative and Cultural Representations (1)

FAH395Y0 - Studies Abroad in Canadian Art and Architecture

Studies Abroad in Canadian Art and Architecture. Not eligible for CR/NCR option.

Prerequisite: 1.0 FAH credit

Recommended Preparation: FAH246H1/ FAH248H1/ FAH255H1/ FAH273H1/ FAH275H5/ FAH292H5

Breadth Requirements: Creative and Cultural Representations (1)

FAH396Y0 - Studies Abroad in Asian Art and Architecture

Studies Abroad in Asian Art and Architecture. Not eligible for CR/NCR option.

Prerequisite: 1.0 FAH credit

Recommended Preparation: FAH260H1/ FAH262H1/ VPHB73H3/ VPHB77H3

Breadth Requirements: Creative and Cultural Representations (1)

FAH397Y0 - Studies Abroad in Architectural History

Studies Abroad in Architectural History. Not eligible for CR/NCR option.

Prerequisite: 1.0 FAH credit

Recommended Preparation: FAH270H1/ FAH272H1/ FAH273H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

Prerequisite: 1.0 FAH credit

FAH398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

FAH399Y1 - Research Opportunity Program

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

Prerequisite: 1.0 FAH credit

FAH401H1 - Aegean Wall Paintings

Hours: 24S

Investigation of the wall-paintings of the Minoan, Cycladic and Mycenaean worlds in the second millennium BC: context, associations, viewing and historical interpretations.

Prerequisite: FAH206H1 and 1.0 FAH credit at the 300 level

Recommended Preparation: FAH303H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH402H1 - Palaces of Minoan Crete

Previous Course Number: FAH423H1
Hours: 24L

Around 2000 BC, the island of Crete sees the emergence of what are arguably the earliest towns and states in European prehistory. At the heart of this new social order are the so-called 'palaces', massive architectural complexes usually interpreted as seats of administrative and political authority. However, fresh discoveries over the past two decades, coupled recently with radical new interpretations, require a fundamental rethinking of the nature of the palaces and their role in Minoan society. This course will provide students with an active opportunity to learn about the latest developments in Minoan art, architecture, and archaeology.

Prerequisite: FAH206H1 and 1.0 FAH credit at the 300 level

Exclusion: FAH423H1

Recommended Preparation: FAH303H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH405H1 - Understanding Dionysos: The God of Wine, Theatre and the Afterlife

Hours: 24S

The Greek god Dionysos presents a multifaceted entry point into exploring Ancient Greek art, culture, religion and history. This course is a comprehensive exploration of the figure of Dionysos, from his obscure pre-historic beginnings of foreign origin, to his transformation into other post-classical entities, spanning Christianity to Buddhism. A substantial part of the course deals with his representations in Greek art, and the god's relationship to the Greeks as the governing figure of many important facets of their lives: drinking practices, sexuality, the performative arts, and the transition into the afterlife through the notion of eternal bliss. The course reading draws on art historical literature, as well as primary sources, and theoretical texts regarding religion and cultural practices.

Prerequisite: FAH307H1/ FAH310H1/ FAH311H1/ FAH312H1/ FAH313H1/ FAH314H1, and an additional 0.5 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH406H1 - Cross-Cultural Issues in Ancient Art Beyond Greece and Rome

Hours: 24S

When cultures collide, they assimilate, they exchange, they transform, and they develop, and there seems to be a pattern of recognizable centres of power around which artistic tradition often revolves. This has caused the conventional understanding of certain flowering of artistic heritage as a product of cross-cultural influences. This course is a seminar style survey that explores these fascinating amalgams of artistic traditions that lie at the Eastern outskirts of the Hellenistic world throughout the Roman Period, from Bactria to India, and with a heavy focus on the Buddhist art of Gandhara, reaching out along the Silk Road. As the title suggests, the class aims at a renewed framework that re-evaluates the role of the Ancient West, which has been absent since the heavily Eurocentric scholarship from the early 20th century. It also aims to familiarize students with current theoretical issues surrounding cross-cultural studies as it pertains to the visual arts, touching upon modern postcolonial theories of space.

Prerequisite: FAH307H1/ FAH310H1/ FAH311H1/ FAH312H1/ FAH313H1/ FAH314H1, and an additional 0.5 FAH credit at the 300-level

Recommended Preparation: FAH311H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH407H1 - Studies in Roman Painting and Sculpture

Hours: 24S

Issues explored might cover Republican and Imperial painting; its Hellenistic sources and parallel media (mosaic, relief). The four distinctive genres of Roman sculptural production: the portrait, the historical relief, sarcophagi, and replicas of famous Greek sculptures. Styles, themes and modes of display in cultural context.

Prerequisite: FAH205H5/ FAH207H1, and an additional 1.0 FAH credit at the 300-level

Recommended Preparation: FAH307H1/ FAH309H1/ FAH314H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH415H1 - History of Islamic Cairo

Hours: 24S

This seminar explores the architectural and urban development of Islamic Cairo (al-Qahira) between the 7th and 16th centuries. As a nexus of both the Islamic empire and the Mediterranean world, Cairo provides an opportunity to explore a major Islamic Medieval city. Modern day Cairo emerged first as a provincial capital (al-Fustat and later al-Qata'a) in the 7th and 8th century and later morphed into a capital under successive dynasties from the 9th to the 16th century. Exploring Cairo throughout this critical historical period, one of both relative stability and upheaval during the post-conquest period to the Crusades, allows for a better understanding of the reciprocity between architecture and urbanism on the one hand and broader political shifts on the other. A central organizing theme of this course is Cairo's position as a place of multiplicity and confessional diversity, embedded within networks of cultural and economic exchange. Other themes explored include the role played by ceremonies and processions on urban form and the development of public space as well as the development of various religious, charitable, military and educational institutions and their impact upon shaping the city.

Prerequisite: 1.0 FAH credit at the 300 level

Recommended Preparation: FAH265H1/ FAH326H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH420H1 - Studies in Western Medieval Art and Architecture

Hours: 24S

In-depth examination of monuments and issues in the art and architecture of Western Europe from the sixth to the fifteenth century.

Prerequisite: FAH215H1/ FAH215H5/ FAH216H1/ FAH216H5/ FAH265H1/ VPHB53H3, and an additional 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH421H1 - Studies in Medieval Cities

Hours: 24S

A focused examination of urbanism, art and architecture of a specific medieval city, such as Jerusalem, Rome, Constantinople, or Paris.

Prerequisite: FAH215H1/ FAH216H1/ FAH265H1/ FAH285H5/ VPHB53H3, and 1.0 FAH credit at the 300 level

Recommended Preparation: FAH327H1/ FAH328H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH424H1 - Studies in Medieval Book Illumination

Hours: 24S

A consideration of individual types of books, their decoration, function, and cultural context. Topics might include, for example, Gospels, Psalters, or Books of Hours.

Prerequisite: FAH215H1/ FAH215H5/ FAH216H1/ FAH216H5/ FAH265H1/ VPHB53H3, and an additional 1.0 FAH credit at the 300-level

Recommended Preparation: FAH319H1/ SMC358H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH430H1 - Pieter Bruegel

Hours: 24S

The study of Pieter Bruegel's works in the context of Netherlandish culture. Emphasis on secular works.

Prerequisite: FAH331H1

Recommended Preparation: Reading knowledge of French or German

Breadth Requirements: Creative and Cultural Representations (1)

FAH433H1 - Leonardo and His Legacy in Renaissance Italy

Hours: 24S

This seminar examines major critical developments in the interpretation of High Renaissance art in Italy by looking at key works produced by Leonardo, his contemporaries, and followers (1470-1530).

Prerequisite: FAH230H1/ FAH274H5, and 1.0 FAH credit at the 300 level

Breadth Requirements: Creative and Cultural Representations (1)

FAH434H1 - The First Art Historians

Hours: 24S

In Vasari's *Lives of the Artists* and their "after-lives," painters and humanists explored questions of word and image, art and life, biography and history, the psychology

of style, the economics and politics of art and the languages of art. How and why did art history originate?

Prerequisite: [FAH230H1](#)/ [FAH231H1](#)/ [FAH274H5](#)/ [FAH279H5](#)/ [VPHB64H3](#)/ [VPHB74H3](#), and 1.0 FAH credit at the 300 level

Breadth Requirements: Creative and Cultural Representations (1)

FAH436H1 - Italian Renaissance Art, Fashion, and Material Culture

Hours: 24S

This seminar explores fashion in the visual and material culture of Renaissance Italy. It focuses on the discourse of fashion as represented by Renaissance artists in their works and as treated in contemporary texts. It further examines the multiple meanings of dress in the courts of Renaissance Italy.

Prerequisite: [FAH230H1](#)/ [FAH231H1](#)/ [FAH274H5](#)/ [FAH279H5](#)/ [VPHB64H3](#)/ [VPHB74H3](#), and 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH438H1 - History of Bad Art from Gothic to Kitsch

Hours: 24S

"Bad" art is a critical category that shadows and defines "good" art. How has the art of invective shaped the histories of art by applying ethical, psychological and anthropological values to the world of art? Topics include blasphemy, decadence, senility, the "other" and anti-social behaviors. Special attention will be given to such prejudicial period styles as Gothic, Mannerism, Baroque and Rococo, and to such artistic movements as the Macchiaioli, neo-Kitsch, Dada, Automatism and Degenerate Art. Readings range from Seneca and Vitruvius to Walter Benjamin and Clement Greenberg. Case studies of artists range from Caravaggio to Odd Nerdrum.

Prerequisite: 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH439H1 - Studies in Renaissance and Baroque Art and Material Culture

Hours: 24L

Focused examinations of themes and methods in the study of Renaissance and Baroque visual arts and material culture.

Prerequisite: [FAH230H1](#)/ [FAH231H1](#)/ [FAH274H5](#)/ [FAH279H5](#)/ [VPHB64H3](#)/ [VPHB74H3](#), and 1.0 FAH credit at the 300+ level

Breadth Requirements: Creative and Cultural Representations (1)

ARH440H1 - Photogrammetry and 3D Analysis of Material Culture

Hours: 12L/12P/12S

With the increasing availability of powerful computers and software, 3D modeling and recording has become commonplace in archaeology, architectural history, museum studies, and other areas of cultural heritage research. In this course, students will learn about a powerful new method for 3D recording known as photogrammetry. After a series of tutorials, they will gain firsthand experience creating their own models of various subjects, such as historical architecture and public art in Toronto, and museum objects on campus. They will also learn how to analyze and present 3D content, while thinking critically about the impact of how digital tools are currently being employed by and shaping the agendas of researchers in archaeology, art history, and related fields.

Prerequisite: 1.0 credit in ANT/ ARH/ FAH courses at the 300+ level

Exclusion: [ARH482H1](#) (Special Topics in Archaeology: 3D Modeling and Archaeological Analysis), offered in Fall 2019 and Fall 2021

Recommended Preparation: Previous experience with photography or imaging software will be helpful but is not required

Breadth Requirements: Creative and Cultural Representations (1)

FAH440H1 - Dutch Genre Painting of the 17th Century

Hours: 24S

Study of so-called "scenes of everyday life." Special attention given to cultural context and problems of constructions of gender and gendered relationships, of social and economic interests, of class conflict, of the relationship with broader European culture. Considerable attention will be paid to the work of Jan Vermeer.

Prerequisite: [FAH340H1](#)

Recommended Preparation: Reading knowledge of French or German

Breadth Requirements: Creative and Cultural Representations (1)

FAH446H1 - Arctic Anthropocene? Image Cultures of Arctic Voyaging

Hours: 24S

'Arctic Anthropocene' examines the extensive visual culture of voyages in the Arctic in the long 19th century. We will probe both Western and Inuit perspectives on the search for the Northwest Passage, whaling, and scientific understandings of the exotic meteorological, human, and animal phenomena of this region through its complex image culture. To underscore ecological understandings of the Arctic in the 19th century and today, we will frame our investigation of the visual culture of this place and time with an interrogation of the notion of the 'Anthropocene.'

Prerequisite: FAH352H1/ FAH353H1/ FAH354H1/ FAH355H1, and an additional 0.5 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH447H1 - 19th-Century Landscape Painting

Hours: 24S

Investigation of English, French, German and Swiss landscape painting from the birth of the Romantic movement to Post-Impressionism.

Prerequisite: FAH245H1/ FAH287H5/ VPHB58H3, and 1.0 FAH credit at the 300-level

Recommended Preparation: Reading knowledge of French or German

Breadth Requirements: Creative and Cultural Representations (1)

FAH448H1 - International Art Since 1940

Hours: 24S

Developments in the mainstream of Western painting and sculpture since World War II with special emphasis upon interrelations between Europe and North America.

Prerequisite: FAH246H1/ FAH289H5/ VPHB59H3, and an additional 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH449H1 - Contemporary Art Movements

Hours: 24S

Selected aspects of the complex array of international contemporary art movements, their artists, objects, and critical discourses. Potential issues include the theoretical, philosophical, and political concerns addressed by given artworks and artists; the role of art journals, the private patron, and museum display.

Prerequisite: FAH246H1/ FAH289H5/ VPHB59H3, and 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH451H1 - Studies in Black Art

Hours: 24S

This Seminar explores the work of Black artists from across the African Diaspora, attending to questions such as formal innovation, sociopolitical and historical context, and methodological problems for art historical research.

Prerequisite: FAH101H1/ FAH102H1, and an additional 0.5 FAH credit at the 300-level

Recommended Preparation: FAH351H1

Breadth Requirements: Creative and Cultural Representations (1)

FAH452H1 - Contemporary Indigenous Art in Canada and the United States

Hours: 24S

This course focuses on Indigenous artists working both within and outside of contemporary art spaces in Canada and the United States, through a study of key exhibitions and movements in the Indigenous arts community from 1984 to the present. From the Columbus Quincentennial in 1992 and its echoes in the "Canada 150" celebrations, to artists working from the front lines of land protection movements, we will explore ideas of nationalism, inclusion, intervention, and 'decolonization' of the gallery.

Prerequisite: 1.0 FAH credit at the 300-level

Recommended Preparation: FAH255H1 or other course work focusing on contemporary art and/or Indigenous topics

Breadth Requirements: Creative and Cultural Representations (1)

FAH457H1 - Issues in Canadian Art, ca. 1900-1940

Hours: 24S

Focused, thematic examinations of the visual arts in Canada in the first half of the twentieth century.

Prerequisite: FAH248H1/ FAH292H5, and an additional 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH458H1 - Issues in Recent Canadian Art

Hours: 24S

Focused, thematic examinations of the visual arts in Canada from c. 1960 to the present.

Prerequisite: FAH354H1 and an additional 0.5 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH461H1 - East Asian Art as a Cultural System

Hours: 24S

Methodologically-focused seminar engaged with recovering and articulating in Western terms indigenous ways of seeing and thinking about East Asian art.

Prerequisite: FAH260H1/ FAH262H1/ VPHB73H3/ VPHB77H3, and an additional 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH463H1 - Materiality, Objecthood, Connoisseurship and Collecting in the Arts of East Asia

Hours: 24S

Seminar based on firsthand examination of East Asian objects in Toronto collections that attends to the historical processes by which such objects were valued and collected.

Prerequisite: FAH260H1/ FAH262H1/ VPHB73H3/ VPHB77H3, and an additional 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH464H1 - Transregional East Asian Art

Hours: 24S

In-depth examination of the play of East Asian Art within and beyond East Asia.

Prerequisite: FAH260H1/ FAH262H1/ VPHB73H3/ VPHB77H3, and an additional 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH465H1 - Exhibiting China

Hours: 24S

This seminar teaches students the skills required to curate an exhibition of Chinese materials. Working firsthand with objects of Chinese art and visual culture in local Toronto collections, students learn to document the object, assess authenticity, write object labels, panel texts, and catalogue essays. Students will thus prepare an exhibition, actual or virtual, of Chinese objects in local collections.

Prerequisite: FAH260H1/ FAH262H1/ VPHB73H3/ VPHB77H3, and an additional 1.0 FAH credit at the 300-level

Recommended Preparation: Two additional courses in Chinese/East Asian art

Breadth Requirements: Creative and Cultural Representations (1)

FAH470H1 - Studies in Renaissance and Baroque Architecture

Hours: 24S

An in-depth study of themes and problems in architecture in Renaissance and Baroque Europe.

Prerequisite: FAH370H1/ FAH371H1, and an additional 0.5 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH472H1 - Studies in Modern Architecture

Hours: 24S

Focused examination of themes and methods in the history of architecture since 1750.

Prerequisite: FAH270H1/ FAH272H1/ FAH273H1, and 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH473H1 - Studies in Canadian Architecture and Landscapes

Hours: 24S

An in-depth study of themes in the history of architecture and landscape in Canada.

Prerequisite: FAH273H1 and an additional 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH480H1 - Special Topics in the History of Art and Architecture

Previous Course Number: FAH489H1

Hours: 24L

Focused examination of special topics in the art and architecture of any period in the Mediterranean, Europe, North America, Asia, or other global regions.

Prerequisite: 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH481H1 - Internship

Hours: 24S

The internship is designed to offer hands-on experience pertaining to the study, exhibition, and care of works of art, focused on the collections and activities of the University Art Centre, an auction house, a public museum, or a private gallery. Students must provide proof of their acceptance as an intern by the Art Centre/auction house/museum/gallery in order to be enrolled in the course. This course is Pass/Fail. Not eligible for CR/NCR option.

Prerequisite: 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH481Y1 - Internship

Hours: 48S

The internship is designed to offer hands-on experience pertaining to the study, exhibition, and care of works of art, focused on the collections and activities of the University Art Centre, an auction house, a public museum, or a private gallery. Students must provide proof of their acceptance as an intern by the Art Centre/auction house/museum/gallery in order to be enrolled in the course. This course is Pass/Fail. Not eligible for CR/NCR option.

Prerequisite: 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH483H1 - Introduction to Conservation: Materials, Deterioration, and Preservation in Art and Material Culture

Hours: 24S

An introduction to conservation, designed to give students a basic understanding of the field, its techniques, and its purposes. Sessions conducted by specialists in the Royal Ontario Museum conservation department.

Prerequisite: 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH484H1 - Fashion & Textiles: Culture & Consumption

Hours: 24S

This course examines the history, meaning and consumption of Western European fashion (18th - 21st centuries). Analysis and research will combine student seminars with the study of actual artefacts in the Textile & Costume Collection of the Royal Ontario Museum.

Prerequisite: 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH485H1 - Collecting Canada: Canadian Pictorial Arts Collection at the Royal Ontario Museum

Hours: 24S

Theoretical and practical engagement with the ROM's Canadian paintings, prints and drawing collections (18th-20th C). Through lectures, workshops, and seminars, we consider the collecting, interpretation, and display of images within the framework of "documentary art" and its various connotations.

Prerequisite: 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH486H1 - Case Studies at the Royal Ontario Museum

Hours: 24S

In-depth investigation of objects at the Royal Ontario Museum. Content will vary according to the museum department offering the course in any given semester.

Prerequisite: 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH487H1 - Introduction to Asian Textiles

Hours: 24S

Introduction to the diverse textile traditions of Asia and the diverse means for interpreting them, with a concentration on core production areas, select regional traditions and connecting forces. Includes first-hand study of objects in ROM collections and galleries and possible guest lectures.

Prerequisite: 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH488H1 - Considering Sustainable Textiles and Fashions in the Age of Climate Crisis

Hours: 24S

This seminar looks at historic and contemporary global thinking about the production and consumption of textiles and fashions within the current climate change crisis, and over-production due to fast fashion. We question the notion of "in" and "out" of Western seasonal style and look at historic models to understand new economies of scale and value, issues of labour and natural resources.

Through lectures, workshops, and seminars, the class will consider how to harness past models to attain the future of textiles and fashion and the context surrounding the 3 R's, reduce, reuse and recycle.

Prerequisite: 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH490H1 - Introduction to the Textile Arts of the Indian Ocean World

Hours: 24S

The Indian Ocean has been called the Cradle of Globalization. For thousands of years monsoon winds linked the people and arts of this vast Ocean that stretches from East Africa in the West to Indonesia (and beyond) in the East. Throughout its long history, handwoven textiles have been amongst the area's greatest art forms, trade goods, religious objects and markers of identity. This course will survey the wide variety of these forms, from c. 1100 to 1950. Special attention is placed on India, which lies at the center of the region, and originated many of the fibres, techniques, design and iconography of the wider area. Select regional manifestations are then examined in depth, using the ROM's extensive collections. These range from the silks of Madagascar, to embroidered men's wear of Oman, to the cosmopolitan batiks of northern coastal Java. It is seen that all these traditions can best be understood within the framework of the wider Indian Ocean region.

Prerequisite: 1.0 FAH credit at the 300-level

Recommended Preparation: Asian art, Islamic art, or anthropology

Breadth Requirements: Creative and Cultural Representations (1)

FAH494H1 - Independent Studies

Eligible students may undertake an independent study course under the supervision of Department of Art History (St. George campus) faculty member. Refer to the Art History website for further information and application instructions. Not eligible for CR/NCR option.

Prerequisite: 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

FAH494Y1 - Independent Studies

Eligible students may undertake an independent study course under the supervision of a Department of Art History (St. George campus) faculty member. Refer to the Art History website for detailed information and application instructions. Not eligible for CR/NCR option.

Prerequisite: 1.0 FAH credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

ASIP (Arts & Science Internship Program)

Introduction

Arts & Science Internship Program

255 Beverley Street, 3rd floor.
asip@utoronto.ca

The Arts & Science Internship Program (ASIP) is a professional work-integrated learning program for Faculty of Arts & Science students enrolled in specific programs of study. Students enrolled in the ASIP stream of their program of study complete mandatory Professional Development programming plus a minimum of 12 and maximum of 20 months of paid, full-time, academically related work experience. The time to degree completion for students enrolled in ASIP is normally 5 years. ASIP is administered by the Faculty of Arts & Science's Experiential Learning & Outreach Support (ELOS) Office.

The ASIP stream of each program is limited enrolment. Students will typically be admitted to the ASIP stream of their program for the Fall term of Year 2 of study; however, in exceptional circumstances, students, including transfer students, who enrolled in an eligible program in the Summer after Year 2, may be admitted to the ASIP stream of their program for the Fall of Year 3. Acceptance into an ASIP stream in Year 3 is dependent on space and requires approval of the student's academic unit and the Faculty of Arts & Science Experiential Learning & Outreach Support (ELOS) Office. Please refer to the ASIP Eligibility page for further details.

The mandatory Professional Development programming will help students prepare for their work opportunities and maximize their learning while on their work terms. It will consist of 4 zero credit weight courses taken over 4 academic terms (Year 2 entry) or 2 academic terms (Year 3 entry). The completion of these courses is mandatory for the ASIP stream of each program, in addition to the regular academic requirements of the program.

The work experience component will consist of 12-20 months of paid, full-time work in the private, not-for-profit, and/or public sectors. For students enrolling in the ASIP stream of their program for the Fall term of Year 2, the first, 4-month work term will take place in the summer between Year 2 and 3, followed by a longer 8, 12 or 16-month work term following the completion of Year 3. Students enrolling in the ASIP stream of their program for the Fall term of Year 3 will complete 12 or 16 months of

work experience after Year 3 over one or two work terms. Students completing all mandatory Professional Development requirements and a minimum of 12 months of work experience will graduate with the ASIP stream acknowledged on their transcript.

Students will be provided a wide range of professional development supports as they progress through the ASIP stream of their program, including workplace readiness and job search coaching, access to a dedicated co-op/internship job board, professional skill development training, access to Employer Relations and Student Development staff, industry information sessions, resources to support students facing barriers to employability, and community-building events. Acceptance into the ASIP stream of a program does not guarantee a student's employment in each work term.

There are additional ancillary fees to participate in the ASIP stream. Fees are paid over a series of six installments, paid as ancillary fees which will be assessed on each Professional Development course, while the final two payments will be assessed on the first two work terms between Year 3 and Year 5. Refer to the mandatory Fees section below for further details.

Eligible Programs

Department of Computer Science:

- Data Science Specialist (ASSPE1687; joint program with Department of Statistical Sciences)
- Computer Science Specialist (ASSPE1689)
- Computer Science Major (ASMAJ1689)

Department of Statistical Sciences:

- Data Science Specialist (ASSPE1687; joint program with Department of Computer Science)
- Specialist in Statistical Science: Methods & Practice (ASSPE2270)
- Specialist in Statistical Science: Theory & Methods (ASSPE2290)

Department of Mathematics:

- Mathematics Specialist (ASSPE1165)
- Applied Mathematics Specialist (ASSPE2053)
- Mathematics & Physics Specialist (ASSPE0397; joint program with Department of Physics)
- Mathematics & Philosophy Specialist (ASSPE1361; joint program with Department of Philosophy)
- Mathematical Applications in Economics & Finance Specialist (ASSPE1700)
- Mathematics & its Applications Specialist (ASSPE1758, ASSPE1890; ASSPE1580)
- Mathematics Major (ASMAJ1165)

Department of Pharmacology & Toxicology:

- Joint Pharmacology and Biomedical Toxicology Specialist (ASSPE2340)
- Biomedical Toxicology Specialist (ASSPE2573)
- Pharmacology Specialist (ASSPE2082)
- Environment & Toxicology Specialist (ASSPE0605)

Department of Chemistry:

- Pharmaceutical Chemistry Specialist (ASSPE1211)
- Chemistry Specialist (ASSPE1376)
- Biological Chemistry Specialist (ASSPE1995)
- Materials Science Specialist (ASSPE2424)
- Chemical Physics Specialist (ASSPE0600)
- Synthetic & Catalytic Chemistry Specialist (ASSPE1377)

Centre for Industrial Relations & Human Resources:

- Industrial Relations & Human Resources Specialist (ASSPE1536)
- Industrial Relations & Human Resources Major (ASMAJ1536)

University of St. Michael's College:

- Book & Media Studies Major (ASMAJ1300)

Department of Cell & Systems Biology:

- Cell & Molecular Biology Major (ASMAJ1003)
- Genome Biology Major (ASMAJ2655)
- Animal Physiology Major (ASMAJ1538)
- Cell & Molecular Biology Specialist (ASSPE1003)
- Bioinformatics & Computational Biology Specialist (ASSPE1868)

Department of Economics:

- Economics Major (ASMAJ1478)
- Economics Specialist (ASSPE1478)
- Financial Economics Specialist (ASSPE2722)
- Economics & Mathematics Specialist (ASSPE2599)

School of the Environment:

- Environmental Science Major (ASMAJ1076)
- Environmental Studies Major (ASMAJ1254)
- Environment & Health Specialist (ASSPE0365)
- Environment & Health Major (ASMAJ0365)
- Environmental Ethics Major (ASMAJ1107)

- Environment and Toxicology Specialist (ASSPE0605; joint program with Department of Pharmacology & Toxicology)

Department of History:

- History Specialist (ASSPE0652)
- History Major (ASMAJ0652)

Human Biology:

- Health & Disease Specialist (ASSPE2013)
- Neuroscience Specialist (ASSPE1472)
- Fundamental Genetics & its Applications Specialist (ASSPE1050)
- Global Health Specialist (ASSPE2575)

Department of Laboratory Medicine & Pathobiology:

- Pathobiology Specialist (ASSPE2025)

Department of Physics:

- Biological Physics Specialist: Advanced Physics Stream (ASSPE2739)
- Biological Physics Specialist: Biochemistry Stream (ASSPE2737)
- Biological Physics Specialist: Immunology Stream (ASSPE2740)
- Biological Physics Specialist: Physiology Stream (ASSPE2738)
- Physics Specialist (ASSPE1944)
- Physics Major (ASMAJ1944)

Department of Political Science:

- Political Science Specialist (ASSPE2015)
- Political Science Major (ASMAJ2015)

Department of Psychology:

- Psychology Major (ASMAJ1160)
- Psychology Specialist (ASSPE1160)

Department of Sociology:

- Sociology Specialist (ASSPE1013)
- Sociology Major (ASMAJ1013)

Department for the Study of Religion:

- Religion Major (ASMAJ0151)
- Religion Specialist (ASSPE0151)

Student Eligibility

Students will apply to the ASIP stream of their program in the spring term after Year 1 (for Year-2 entry) or Year 2 (for Year 3 entry). To be eligible for admission to ASIP, students must meet the following core requirements:

- Be enrolled in an academic program that is participating in ASIP.
- **Year 2 Entry:** Entering Year 2 (4.0-8.5 credits completed) as a full-time student in the upcoming Fall/Winter session. Year 2 students who exceed the 8.5 credit limit due to transfer credits (whether from secondary school or postsecondary studies), with up to 10 credits at the time of entry, will also be considered.
- **Year 3 Entry:** Full-time students entering Year 3 (up to 13.5 credits completed) in the upcoming Fall/Winter session, and who enrolled in an eligible program in the summer after Year 2, may also be considered. Year 3 entry to ASIP, however, will be dependent on space and will require approval of both the student's academic unit and the Experiential Learning & Outreach Support (ELOS) office. Refer to Year 3 Entry Eligibility for further details.
- Be in good academic standing or on probation at the time of application and must remain in good academic standing or on probation to continue in ASIP and apply for a work term.
- Be returning to full-time studies after completion of all work term requirements. Students returning for only one term must be enrolled in at least 1.5 credits in that term.
- Not currently part of another co-op program at the University of Toronto.
- Both domestic and international students from eligible programs may participate. All international students require a valid work permit to participate in a work term. The International Student Immigration Advisors at the Centre for International Experience (CIE) can provide guidance and support for those that require it. Students are encouraged to apply for any required work permit as soon as possible after being admitted to the ASIP stream of their program.
- Students with part-time status may be considered for the program if they have received accommodation from the University. Examples of accommodation include, but are not limited to, being registered with Accessibility Services. Students with accommodation needs should first contact asip@utoronto.ca.

Student Selection and Enrolment

The ASIP stream of each program is limited enrolment. All students who meet the eligibility requirements stated above, and who submit a completed ASIP application

package, will be considered for admission.

The ASIP program's mission is to help students prepare for professional life through work-integrated learning. We strive to provide inclusive services that enable all students to thrive and succeed in the program, including those from equity-deserving groups. We encourage all interested students to apply to the program.

Holistic admissions criteria will form the basis for admission, with the following criteria being considered:

- demonstrated leadership, communication, teamwork, and community-building qualities
- evidence of motivation to learn and develop
- resilience and ability to overcome challenges
- sense of self and sense of responsibility, ability to learn from mistakes

The application package will consist of the student's resume and responses to a series of non-cognitive questions exploring the above qualities. Further details about applying to ASIP and program requirements can be found here.

Program Details

Students will typically be admitted to the ASIP stream of their program for the Fall term of Year 2 of study. However, in exceptional circumstances students, including transfer students, who enrolled in an eligible program in the Summer after Year 2, can be admitted to the ASIP stream for the Fall term of Year 3. Acceptance into an ASIP stream in Year 3 is dependent on space and requires approval of the student's academic unit and the Faculty of Arts & Science Experiential Learning & Outreach Support (ELOS) Office. Refer to the eligibility page for further details. Enrolment is limited and requires a supplemental application.

The work experience component will consist of 12 to 20 months of paid, full-time work in the private, not-for-profit, and/or public sectors. To help students prepare for their work opportunities and maximize their learning while on their work terms, students will also complete mandatory professional development training.

Students completing all mandatory professional development requirements and a minimum of 12 months of work experience will graduate from the ASIP stream of their program. This will be identified on their transcript with the notation "A&S Internship Program".

Completion Requirements

Year 2 Entry

- Second Year: PDC220H1, PDC221H1, and INT200H1 (optional)

- Third Year: PDC320H1, PDC321H1, and INT300H1 (optional)
- Fourth Year: INT300H1 (mandatory if not previously completed), INT400H1, INT450H1 (mandatory if INT200H1 not previously completed), INT470H1 (optional)

Year 3 Entry

- Third Year: PDC230H1, PDC231H1, PDC330H1, PDC331H1, INT301H1 (optional)
- Fourth Year: INT301H1 (mandatory if not previously completed), INT401H1, INT451H1, INT471H1 (optional)

Students must abide by the following guidelines and restrictions:

- **Year 2 Entry:** Students can complete one short (4-month) work term and one work term of 8, 12 or 16 months with two separate employers; or one long immersive work term with one employer to a maximum of 16 months.
- **Year 3 Entry:** Students can complete one short (4-month) work term and one work term of 8 or 12 months with two separate employers; or one long immersive work term to a maximum of 16 months with one employer.
- Students must return to full-time study after their final work term. Students returning for only one term must be enrolled in at least 1.5 credits in that term.
- Students will only be allowed to complete a 4-month work term in the summer term.
- Students will not be able to compete for additional jobs through the ASIP job board after 12 months of work experience has been completed.
- Students will be able to compete for a maximum of two work term opportunities through the ASIP job board.
- New work terms will begin in the Summer or Fall terms only.

Students are not normally eligible to enrol in courses while participating in their work terms. Students who wish to take courses must request the approval of their employer and the ELOS office, and approval may be granted for no more than one 0.5 credit course for each of the Fall term, Winter term, or Summer session.

Students will be considered full-time students while completing their work terms. The expectation is that all students joining ASIP in Year 2 will attempt to secure a 4-month work term in the summer between Year 2 and Year 3. Students who are unsuccessful in securing a work term will still be able to remain in the program and compete for work terms in the year between Year 3 and Year 5. During the summer between Year 2 and Year 3, these students may choose to take additional courses to accelerate their time to graduation, or work in jobs that would not

otherwise be eligible for ASIP (i.e., part-time and/or unpaid).

Mandatory Professional Development Courses

Course Title	Year 2 Entry		Year 3 Entry	
A&S Internship Program: Maximizing Your Experience	PDC220H1	Fall Term, Year 2	PDC230H1	Fall Term, Year 3
A&S Internship Program: Essential Skills for ASIP Success	PDC221H1	Winter Term, Year 2	PDC231H1	Winter Term, Year 3
A&S Internship Program: Professional Skill Development I	PDC320H1	Fall Term, Year 3	PDC330H1	Fall Term, Year 3
A&S Internship Program: Professional Skill Development II	PDC321H1	Winter Term, Year 3	PDC331H1	Winter Term, Year 3

Work Terms

Students must complete a minimum of 12 months of work experience. Each 4-month work block will be coded as follows:

Year 2 Entry	Year 3 Entry
INT200H1: A&S Internship Program: Professional Work Term	
INT300H1: A&S Internship Program: Professional Work Term	INT301H1: A&S Internship Program: Professional Work Term
INT400H1: A&S Internship Program: Professional Work Term	INT401H1: A&S Internship Program: Professional Work Term
INT450H1: A&S Internship Program: Professional Work Term	INT451H1: A&S Internship Program: Professional Work Term
INT470H1: A&S Internship Program: Professional Work Term	INT471H1: A&S Internship Program: Professional Work Term

Mandatory Fees

There is a supplemental fee to participate in ASIP. The total cost to participate will be paid over six installments, which will be assessed on each Professional Development course, while the final two payments will be assessed on the first two work terms between Year 3 and Year 5. Refer to the chart below for the 2024-25 ancillary fees. There is no work term fee for the INT200H1 4-month

work term taken between Year 2 and 3 and students will not be required to pay the work term fee if they are unable to secure a work term. Year 3 entry students do not take the INT200H1 work term course. Ancillary fees will be linked to the following course codes to facilitate payment:

Year 2 Entry		Year 3 Entry	
Ancillary Fee	Course	Ancillary Fee	Course
\$480	PDC220H1	\$470	PDC230H1

ASIP Courses

INT200H1 - Arts & Science Internship Program - Professional Work Term

Students participate in a full-time, paid, career-related work experience totalling at least 420 hours within a 4-month period. Students compete for employment within the public, not-for-profit, or for-profit sectors. Students will be enrolled into the course once hired for an ASIP work term and the work experience must be approved by the Experiential Learning & Outreach Support (ELOS) Office.

Student performance while on the work term will be monitored through a site visit and/or student and employer check-in. Students will be required to submit a learning plan at the start of each work term opportunity, reflective reports at regular intervals during the work period, a work term evaluation, and a final work term assignment (which may have different formats depending on the student's program). Employers will also be asked to submit a final evaluation of the student's progress and performance.

This course does not carry credit weight, is evaluated as Credit/No Credit, and no tuition fee is associated.

This course is only open to students admitted to the ASIP stream of their program of study for Year 2.

Prerequisite: [PDC221H1](#)

PDC220H1 - Arts & Science Internship Program - Maximizing Your Experience

This course is a mandatory component of the Arts & Science Internship Program (ASIP) for students admitted to the ASIP stream of their program for Year 2, and students admitted for Year 2 must successfully complete this course and receive a passing grade to gain access to the ASIP job board. The course will provide an opportunity for students to prepare for and maximize their learning and personal development through ASIP. Topics may include: self-assessment – skills, values, interests; building a career and co-op plan; skills articulation – how to identify, articulate and apply skills gained through courses and other life experiences; personal marketing

Year 2 Entry		Year 3 Entry	
\$480	PDC221H1	\$470	PDC231H1
\$480	PDC320H1	\$480	PDC330H1
\$480	PDC321H1	\$480	PDC331H1
\$0	INT200H1	N/A	N/A
\$970	INT300H1	\$970	INT301H1
\$970	INT400H1	\$970	INT401H1

documents; guided self-reflection on barriers to employment; resources and toolkits to support access for all; and co-op student panels.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however an ancillary fee will be assessed. Refer to the [ASIP Fees & Financial Aid website](#) for further details.

Students who enrolled in the ASIP stream of their program in Year 3 should enrol in [PDC230H1](#).

Exclusion: [PDC230H1](#)

PDC221H1 - Arts & Science Internship Program - Essential Skills for ASIP Success

This course is a mandatory component of the Arts & Science Internship Program (ASIP) for students admitted to the ASIP stream of their program for Year 2, and students admitted for Year 2 must successfully complete this course and receive a passing grade before starting their first work term. The course will help students prepare for their first work term and optimize their chances of success in the first recruitment cycle. Topics may include: ASIP guidelines and requirements, resume and cover letter tailoring, professionalism essentials, job search essentials, interview preparation, workplace rights, health and wellbeing while in ASIP, and accessibility and EDI considerations.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however an ancillary fee will be assessed. Refer to the [ASIP Fees & Financial Aid website](#) for further details.

Students who enrolled in the ASIP stream of their program in Year 3 should enrol in [PDC231H1](#).

Prerequisite: [PDC220H1](#)

Exclusion: [PDC231H1](#)

PDC230H1 - Arts & Science Internship Program - Maximizing Your Experience

This course is a mandatory component of the Arts & Science Internship Program (ASIP) for students admitted to the ASIP stream of their program for Year 3, and students admitted for Year 3 must successfully complete this course and receive a passing grade to gain access to the ASIP job board. The course will provide an opportunity for students to prepare for and maximize their learning and personal development through ASIP. Topics may include: self-assessment – skills, values, interests; building a career and co-op plan; skills articulation – how to identify, articulate and apply skills gained through courses and other life experiences; personal marketing documents; guided self-reflection on barriers to employment; resources and toolkits to support access for all; and co-op student panels.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however an ancillary fee will be assessed. Refer to the [ASIP Fees & Financial Aid website](#) for further details.

Students who enrolled in the ASIP stream of their program in Year 2 should enrol in [PDC220H1](#).

Exclusion: [PDC220H1](#)

PDC231H1 - Arts & Science Internship Program - Essential Skills for ASIP Success

This course is a mandatory component of the Arts & Science Internship Program (ASIP) for students admitted to the ASIP stream of their program for Year 3, and students admitted for Year 3 must successfully complete this course and receive a passing grade before starting their first work term. The course will help students prepare for their first work term and optimize their chances of success in the first recruitment cycle. Topics may include: ASIP guidelines and requirements, resume and cover letter tailoring, professionalism essentials, job search essentials, interview preparation, workplace rights, health and wellbeing while in ASIP, and accessibility and EDI considerations.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however an ancillary fee will be assessed. Refer to the [ASIP Fees & Financial Aid website](#) for further details.

Students who enrolled in the ASIP stream of their program in Year 2 should enrol in [PDC221H1](#).

Prerequisite: [PDC230H1](#)

Exclusion: [PDC221H1](#)

INT300H1 - Arts & Science Internship Program - Professional Work Term

Students participate in a full-time, paid, career-related work experience totalling at least 420 hours within a 4-month period. Students compete for employment within the public, not-for-profit, or for-profit sectors. Students will be enrolled into the course once hired for an ASIP work term and the work experience must be approved by the Experiential Learning & Outreach Support (ELOS) Office.

Student performance while on the work term will be monitored through a site visit and/or student and employer check-in. Students will be required to submit a learning plan at the start of each work term opportunity, reflective reports at regular intervals during the work period, a work term evaluation, and a final work term assignment (which may have different formats depending on the student's program). Employers will also be asked to submit a final evaluation of the student's progress and performance.

This course is only open to students admitted to the ASIP stream of their program of study for Year 2.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however an ancillary fee will be assessed. Refer to the [ASIP Fees & Financial Aid website](#) for further details.

Prerequisite: [PDC321H1](#)

Exclusion: [INT301H1](#)

INT301H1 - Arts & Science Internship Program - Professional Work Term

Students participate in a full-time, paid, career-related work experience totalling at least 420 hours within a 4-month period. Students compete for employment within the public, not-for-profit, or for-profit sectors. Students will be enrolled into the course once hired for an ASIP work term and the work experience must be approved by the Experiential Learning & Outreach Support (ELOS) Office.

Student performance while on the work term will be monitored through a site visit and/or student and employer check-in. Students will be required to submit a learning plan at the start of each work term opportunity, reflective reports at regular intervals during the work period, a work term evaluation, and a final work term assignment (which may have different formats depending on the student's program). Employers will also be asked to submit a final evaluation of the student's progress and performance.

This course is only open to students admitted to the ASIP stream of their program of study for Year 3.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however an ancillary fee will be assessed. Refer to the [ASIP Fees & Financial Aid website](#) for further details.

Prerequisite: [PDC231H1](#), [PDC331H1](#)

Exclusion: [INT300H1](#)

PDC320H1 - Arts & Science Internship Program - Professional Skill Development I

This course is a mandatory component of the Arts & Science Internship Program (ASIP) for students admitted to the ASIP stream of their program for Year 2. Students admitted for Year 2 must successfully complete this course to graduate from the ASIP Stream of their program of study. The course will help students build transferable skills essential for success in the workplace and in the evolving world of work. The course will also support and help guide students through the next recruitment cycle. Topics may include: post work-term reflection (if applicable), advanced interview skills, job search support for recruitment cycle II, and skills development modules. Skills development modules may include: design thinking, intercultural communication, problem solving, conflict resolution, universal design and ethical and sustainability-minded decision making.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however an ancillary fee will be assessed. Refer to the [ASIP Fees & Financial Aid website](#) for further details.

Students who enrolled in the ASIP stream of their program in Year 3 should enrol in [PDC330H1](#).

Prerequisite: [PDC221H1](#)

Exclusion: [PDC330H1](#)

PDC321H1 - Arts & Science Internship Program - Professional Skill Development II

This course is a mandatory component of the Arts & Science Internship Program (ASIP) for students admitted to the ASIP stream of their program for Year 2. Students admitted for Year 2 must successfully complete this course to graduate from the ASIP Stream of their program of study. The course will help students build transferable skills essential for success in the workplace and in the evolving world of work. The course will also support and help guide students through the next recruitment cycle. Topics will include: job search support for recruitment cycle II and skills development modules. Skills development modules topics will continue from

[PDC320H1](#), with an additional focus on: Project management skills including, Problem Solving and Critical Thinking, Teamwork and Leadership, Goal Setting and Planning, professional responsibility, workplace organization skills, workplace writing and communication.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however an ancillary fee will be assessed. Refer to the [ASIP Fees & Financial Aid website](#) for further details.

Students who enrolled in the ASIP stream of their program in Year 3 should enrol in [PDC331H1](#).

Prerequisite: [PDC320H1](#)

Exclusion: [PDC331H1](#)

PDC330H1 - Arts & Science Internship Program - Professional Skill Development I

This course is a mandatory component of the Arts & Science Internship Program (ASIP) for students admitted to the ASIP stream of their program for Year 3. Students admitted for Year 3 must successfully complete this course to graduate from the ASIP Stream of their program of study. The course will help students build transferable skills essential for success in the workplace and in the evolving world of work. The course will also support and help guide students through the next recruitment cycle. Topics may include: post work-term reflection (if applicable), advanced interview skills, job search support for recruitment cycle II, and skills development modules. Skills development modules may include: design thinking, intercultural communication, problem solving, conflict resolution, universal design and ethical and sustainability-minded decision making.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however an ancillary fee will be assessed. Refer to the [ASIP Fees & Financial Aid website](#) for further details.

Students who enrolled in the ASIP stream of their program in Year 2 should enrol in [PDC320H1](#).

Exclusion: [PDC320H1](#)

PDC331H1 - Arts & Science Internship Program - Professional Skill Development II

This course is a mandatory component of the Arts & Science Internship Program (ASIP) for students admitted to the ASIP stream of their program for Year 3. Students admitted for Year 3 must successfully complete this

course to graduate from the ASIP Stream of their program of study. The course will help students build transferable skills essential for success in the workplace and in the evolving world of work. The course will also support and help guide students through the next recruitment cycle. Topics will include: job search support for recruitment cycle II and skills development modules. Skill development topics will continue from [PDC330H1](#), with an additional focus on: Project management skills including, Problem Solving and Critical Thinking, Teamwork and Leadership, Goal Setting and Planning, professional responsibility, workplace organization skills, workplace writing and communication.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however an ancillary fee will be assessed. Refer to the [ASIP Fees & Financial Aid website](#) for further details.

Students who enrolled in the ASIP stream of their program in Year 2 should enrol in [PDC321H1](#).

Prerequisite: [PDC330H1](#)

Exclusion: [PDC321H1](#)

INT400H1 - Arts & Science Internship Program - Professional Work Term

Students participate in a full-time, paid, career-related work experience totalling at least 420 hours within a 4-month period. Students compete for employment within the public, not-for-profit, or for-profit sectors. Students will be enrolled into the course once hired for an ASIP work term and the work experience must be approved by the Experiential Learning & Outreach Support (ELOS) Office.

Student performance while on the work term will be monitored through a site visit and/or student and employer check-in. Students will be required to submit a learning plan at the start of each work term opportunity, reflective reports at regular intervals during the work period, a work term evaluation, and a final work term assignment (which may have different formats depending on the student's program). Employers will also be asked to submit a final evaluation of the student's progress and performance.

This course is only open to students admitted to the ASIP stream of their program of study for Year 2.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however an ancillary fee will be assessed. Refer to the [ASIP Fees & Financial Aid website](#) for further details.

Prerequisite: [INT300H1](#)

Exclusion: [INT401H1](#)

INT401H1 - Arts & Science Internship Program - Professional Work Term

Students participate in a full-time, paid, career-related work experience totalling at least 420 hours within a 4-month period. Students compete for employment within the public, not-for-profit, or for-profit sectors. Students will be enrolled into the course once hired for an ASIP work term and the work experience must be approved by the Experiential Learning & Outreach Support (ELOS) Office.

Student performance while on the work term will be monitored through a site visit and/or student and employer check-in. Students will be required to submit a learning plan at the start of each work term opportunity, reflective reports at regular intervals during the work period, a work term evaluation, and a final work term assignment (which may have different formats depending on the student's program). Employers will also be asked to submit a final evaluation of the student's progress and performance.

This course is only open to students admitted to the ASIP stream of their program of study for Year 3.

This course does not carry credit weight and is evaluated as Credit/No Credit. No tuition fee is associated, however an ancillary fee will be assessed. Refer to the [ASIP Fees & Financial Aid website](#) for further details.

Prerequisite: [INT301H1](#)

Exclusion: [INT400H1](#)

INT450H1 - Arts & Science Internship Program - Professional Work Term

Students participate in a full-time, paid, career-related work experience totalling at least 420 hours within a 4-month period. Students compete for employment within the public, not-for-profit, or for-profit sectors. Students will be enrolled into the course once hired for an ASIP work term and the work experience must be approved by the Experiential Learning & Outreach Support (ELOS) Office.

Student performance while on the work term will be monitored through a site visit and/or student and employer check-in. Students will be required to submit a learning plan at the start of each work term opportunity, reflective reports at regular intervals during the work period, a work term evaluation, and a final work term assignment (which may have different formats depending on the student's program). Employers will also be asked to submit a final evaluation of the student's progress and performance.

This course is only open to students admitted to the ASIP stream of their program of study for Year 2.

This course does not carry credit weight, is evaluated as Credit/No Credit, and no tuition fee is associated.

Prerequisite: [INT400H1](#)
Exclusion: [INT451H1](#)

INT451H1 - Arts & Science Internship Program - Professional Work Term

Students participate in a full-time, paid, career-related work experience totalling at least 420 hours within a 4-month period. Students compete for employment within the public, not-for-profit, or for-profit sectors. Students will be enrolled into the course once hired for an ASIP work term and the work experience must be approved by the Experiential Learning & Outreach Support (ELOS) Office.

Student performance while on the work term will be monitored through a site visit and/or student and employer check-in. Students will be required to submit a learning plan at the start of each work term opportunity, reflective reports at regular intervals during the work period, a work term evaluation, and a final work term assignment (which may have different formats depending on the student's program). Employers will also be asked to submit a final evaluation of the student's progress and performance.

This course is only open to students admitted to the ASIP stream of their program of study for Year 3.

This course does not carry credit weight, is evaluated as Credit/No Credit, and no tuition fee is associated.

Prerequisite: [INT401H1](#)
Exclusion: [INT450H1](#)

INT470H1 - Arts & Science Internship Program - Professional Work Term

Students participate in a full-time, paid, career-related work experience totalling at least 420 hours within a 4-month period. Students compete for employment within the public, not-for-profit, or for-profit sectors. Students will be enrolled into the course once hired for an ASIP work term and the work experience must be approved by the Experiential Learning & Outreach Support (ELOS) Office.

Student performance while on the work term will be monitored through a site visit and/or student and employer check-in. Students will be required to submit a learning plan at the start of each work term opportunity, reflective reports at regular intervals during the work period, a work term evaluation, and a final work term assignment (which may have different formats depending on the student's program). Employers will also be asked to submit a final evaluation of the student's progress and performance.

This course is only open to students admitted to the ASIP stream of their program of study for Year 2.

This course does not carry credit weight, is evaluated as Credit/No Credit, and no tuition fee is associated.

Prerequisite: [INT450H1](#)
Exclusion: [INT471H1](#)

INT471H1 - Arts & Science Internship Program - Professional Work Term

Students participate in a full-time, paid, career-related work experience totalling at least 420 hours within a 4-month period. Students compete for employment within the public, not-for-profit, or for-profit sectors. Students will be enrolled into the course once hired for an ASIP work term and the work experience must be approved by the Experiential Learning & Outreach Support (ELOS) Office.

Student performance while on the work term will be monitored through a site visit and/or student and employer check-in. Students will be required to submit a learning plan at the start of each work term opportunity, reflective reports at regular intervals during the work period, a work term evaluation, and a final work term assignment (which may have different formats depending on the student's program). Employers will also be asked to submit a final evaluation of the student's progress and performance.

This course is only open to students admitted to the ASIP stream of their program of study for Year 3.

This course does not carry credit weight, is evaluated as Credit/No Credit, and no tuition fee is associated.

Prerequisite: [INT451H1](#)
Exclusion: [INT470H1](#)

Astronomy and Astrophysics

Faculty List

Department Chair

R.G. Abraham, PhD, Professor, FRSC

Associate Chair, Graduate Studies

J. Bovy, PhD, CRC

Associate Chair, Undergraduate Studies

C.D. Matzner, PhD

Professors

R.G. Abraham, PhD, FRSC

B. Gaensler, PhD, FAA, CRC

C.D. Matzner, PhD

D.-S. Moon, PhD

C.B. Netterfield, PhD (Cross Appointment, Physics)

M.H. van Kerkwijk, PhD

Y. Wu, PhD

Associate Professors

J. Bovy, PhD, CRC

R. Hlozek, DPhil (Cross Appointment, Dunlap Institute)

S. Sivanandam, PhD (Cross Appointment, Director, Dunlap Institute)

K. Vanderlinde, PhD (Cross Appointment, Dunlap Institute)

Assistant Professors

M. Drout, PhD, CRC

G. Eadie, PhD (Cross Appointment, Statistical Sciences)

A.D. Hincks, PhD (Cross Appointment, SMC)

T. Li, PhD

J. Mena-Parra, PhD (Cross Appointment, Dunlap Institute)

L. Rousseau-Nepton, PhD (Cross Appointment, Dunlap Institute)

J. Speagle, PhD (Cross Appointment, Statistical Sciences)

Associate Professor, Teaching Stream

M. Reid, PhD

Cross Appointed Faculty

P. Artymowicz, PhD (UTSC)

J.R. Bond, PhD, FRSC, FRS (Physics)

M. Bryan, PhD (UTM)

M. Diamond, BSc, MSc, PhD (Physics)

R. Essick, PhD (CITA)

M. Fishbach, PhD (CITA)

L. Hirsch, PhD (UTM)

J. P. Lowman, PhD (UTSC)

P.G. Martin, PhD, FRSC (Interim Director, CITA)

K. Menou, DEA, PhD (UTSC)

N.W. Murray, PhD, CRC (CITA)

U-L. Pen, PhD (CITA)

H. Rein, PhD (UTSC)

B. Ripperda, PhD (CITA)

A.C. Thompson, PhD (CITA)

D. Valencia, PhD (UTSC)

Status Only Faculty

S. Tremaine, PhD (CITA)

Professors Emeriti

R.G. Carlberg, PhD, FRSC

C.M. Clement, PhD

M.J. Clement, PhD

J.B. Lester, PhD

C.C. Dyer, PhD

S.W. Mochnacki, PhD

J.R. Percy, PhD

S.M. Rucinski, PhD

E. R. Seaquist, PhD

H.K.C. Yee, PhD, FRSC

Introduction

Astronomy explores the universe beyond the earth and attempts to understand the physical processes that describe its contents. Essentially all civilizations have developed astronomy to some degree, with records extending back to the Babylonians. The modern development of astronomy began with Galileo turning a telescope to the sky and the heliocentric model of the solar system. Astronomy and astrophysics have undergone a revolution in the past fifty years as telescopes ranging from the radio to the gamma ray have discovered the relict radiation from the Big Bang, stars and galaxies that were forming not long after, ultradense neutron stars and black holes, as well as planets around other stars. Astronomy as a discipline is a distinctive integration of many of the sciences. At the introductory level it is used to provide a non-technical overview of the scientific approach to questions and our current understanding. At the more advanced level a quantitative physical understanding of astrophysical systems is developed. A graduate in astronomy has a wide grounding in modern physical science which is important for a wide range of roles in society.

Several courses are offered to suit persons of diverse backgrounds and depths of interest. Two beginning courses ([AST101H1](#), [AST201H1](#)) require no special knowledge of mathematics or other sciences and are best suited to students taking non-science programs. These courses develop an understanding of the universe in a qualitative way and in terms of natural laws familiar to us

on Earth. AST121H1 is an introductory astronomy course for all science students. AST301H1 is a practical observational astronomy course intended for students from any background, including non-science majors. The department offers a range of cross-disciplinary courses, including AST310H1, JCA302H1, and AST251H1 all of which are open to science majors and non-science majors.

The remaining courses are designed for physical sciences and astronomy program students. For all Astronomy & Astrophysics programs, the first astronomy courses normally start in the second year, as they require the mathematical and physical grounding provided in the first year. In third year, after further physics and mathematics, follow more advanced theoretical study as well as a lab course that includes the use of the campus telescopes. For the major program, this is complemented by electives in more advanced mathematics, physics or numerical methods, as well as an introduction to astrophysical research. For the Astronomy & Physics specialist program, intensive training in all aspects of physics is added, allowing supervised, forefront research in fourth year, and preparing for a career in (astro)physical research via graduate studies or otherwise.

The Department works closely with two related academic units, the Canadian Institute for Theoretical Astrophysics (CITA) and the Dunlap Institute for Astronomy and Astrophysics. With a national mandate, CITA fosters research in theoretical aspects of the discipline, including the exploitation of high-performance computers in house and in SciNet. Complementary to this, a focus of the Dunlap Institute is on the design and development of astronomical instrumentation. Undergraduate students will find diverse research opportunities through the Department and these two cognate units.

Undergraduate

Enquiries: ungrad.sec@astro.utoronto.ca (416-946-5243)

Website: <http://www.astro.utoronto.ca>

Astronomy and Astrophysics Programs

Astronomy & Physics Specialist (Science Program) - ASSPE0271

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

The Astronomy & Physics Specialist program combines rigorous training in the full spectrum of core physics subfields with their application in astronomy. Lecture courses are complemented by practical courses, and the program culminates in a supervised research project, where all the skills learned are used, and which is intended to be published.

(14.0 credits, including at least 4.0 credits at the 300+ level, and at least 1.0 credit at the 400-level)

First Year:

MAT137Y1/ MAT157Y1, MAT223H1/ MAT240H1; PHY131H1/ PHY151H1, PHY132H1/ PHY152H1; 0.5 credit from CSC108H1/ CSC110Y1/ CSC148H1 or another course that gives a foundation in computer programming approved by the Undergraduate Chair. (MAT137Y1, MAT223H1, PHY151H1, PHY152H1 recommended)

Second Year:

AST221H1, AST222H1; MAT237Y1/ MAT257Y1/ MAT235Y1, MAT244H1/ MAT267H1; PHY250H1, PHY252H1, PHY256H1
(MAT237Y1, MAT244H1 recommended)

Third Year:

1. AST320H1, AST325H1/ AST326Y1; PHY224H1, PHY254H1, PHY354H1, PHY356H1
2. 0.5 credit from APM346H1, MAT224H1, MAT327H1, MAT334H1, MAT363H1, STA257H1

Fourth Year:

1. AST425Y1/ (AST424H1, extra 0.5 credit from lines 2 or 3; see note 3); PHY350H1
2. 0.5 credit from PHY324H1, PHY357H1, PHY358H1, PHY385H1, PHY407H1, PHY408H1, PHY483H1, JPE395H1
3. 1.0 credit from AST430H1, PHY450H1, PHY454H1, PHY456H1, PHY460H1, PHY483H1, PHY484H1, PHY495H1
4. AST310H1/ ENV222H1/ ENV333H1/ ESS205H1/ HPS200H1/ JPH441H1/ PHL273H1/ VIC172Y1, or another course with a significant emphasis on Social and Ethical Responsibility approved by the Undergraduate Chair.

Notes:

1. Second-year students who wish to keep open the option of pursuing a physics specialist degree should consider taking PHY254H1 in 2nd year.
2. Third-year students are invited and fourth-year students are expected to attend the weekly departmental colloquia.
3. Fourth-year students are encouraged to enrol in the independent research course AST425Y1, but this is guaranteed for students with at least a B average in the program courses and requires identifying a supervisor. Others who wish to take AST425Y1 should consult the course coordinator or the undergraduate chair.

Astronomy & Astrophysics Major (Science Program) - ASMAJ1423

The Astronomy Major provides deep knowledge in astronomy & physics, and enables students to pursue quantitative, problem-solving careers in a variety of fields.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

This program is appropriate for students interested in a more flexible and diverse undergraduate program. It may be tailored to be a natural counterpart to a second major in Mathematics, Physics, Statistics, or Computer Science; students should consult the undergraduate chairs of Astronomy & Astrophysics and the respective departments for advice on course selection.

(8.0 credits, including at least 2.0 credits at the 300+ level, and a 0.5 credit at the 400-level)

First Year:

1. (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1 (MAT137Y1 recommended)

2. PHY131H1/ PHY151H1, PHY132H1/ PHY152H1 (PHY151H1, PHY152H1 recommended)

3. 0.5 credit from CSC108H1/ CSC110Y1/ CSC148H1 or another course that gives a foundation in computer programming approved by the Undergraduate Chair. (CSC108H1 recommended for non-Computer Science majors)

Second Year:

1. AST221H1, AST222H1

2. MAT235Y1/ MAT237Y1/ MAT257Y1 (MAT237Y1 recommended)

3. PHY252H1

Third Year:

1. AST320H1, AST325H1/ AST326Y1 (AST325H1 recommended)

Third or fourth year:

1. AST424H1 (can be substituted with AST430H1/ AST431H1/ AST431Y1 with permission of the

undergraduate chair)

2. 0.5 credit from AST310H1/ ENV222H1/ ENV333H1/ ESS205H1/ HPS200H1/ JPH441H1/ PHL273H1/ VIC172Y1, or another course with a significant emphasis on Social and Ethical Responsibility approved by the Undergraduate Chair.

3. 0.5 credit from CSC336H1, CSC385H1, CSC456H1; STA302H1, STA313H1; PHY350H1, PHY354H1, PHY356H1, PHY357H1, PHY358H1, PHY385H1, PHY407H1, PHY408H1, PHY450H1, JPE395H1; JCA302H1, AST310H1, AST398H0, AST398Y0, AST399Y1, AST430H1, AST431H1, AST431Y1; or any CTA course at the 300+ level.

Notes:

1. The Astronomy & Astrophysics Major program is not designed primarily for students intending to pursue graduate studies in Astronomy & Astrophysics. Such students should consider the Astronomy & Physics Specialist program, or consult the Undergraduate Chair about their course selections.

2. Students interested in pursuing a research project in fourth year (AST425Y1) should consult the undergraduate chair.

3. Faculty of Applied Science & Engineering, UTM, and UTSC equivalents to courses can be substituted on a case-by-case basis with the approval of the course coordinator or the undergraduate chair.

4. Third-year students are invited and fourth-year students are expected to attend the weekly departmental colloquia.

Astronomy & Astrophysics Minor (Science Program) - ASMIN1423

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

A program designed for students looking to add breadth to a program in another, perhaps unrelated discipline.

(4 full courses or their equivalent)

1. AST221H1, AST222H1, AST320H1, AST325H1/ AST326Y1

2. (PHY131H1, PHY132H1)/(PHY151H1, PHY152H1)

3. PHY252H1 and one of PHY224H1, PHY250H1, PHY254H1, PHY256H1

Notes:

1. PHY131H1, PHY132H1 and PHY151H1, PHY152H1

require ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/
[MAT157Y1](#) and [PHY252H1](#) requires [MAT235Y1](#)/
[MAT237Y1](#)/ [MAT257Y1](#).

2. Faculty of Applied Science & Engineering equivalents

Astronomy and Astrophysics Courses

AST101H1 - The Sun and Its Neighbours

Hours: 24L/12T

Our place in the Universe. Phenomena we see in the sky. What we know about the Sun, the planets and comets, and the formation of the solar system – and how we know it. What makes planets suitable for life. Finding out about the nearest stars and their planets. This course is intended for students with no science or engineering background.

Exclusion: [AST121H1](#), [AST101H5](#), [ASTA01H3](#), [ASTC25H3](#), [CIV100H1](#), [CIV101H1](#), [CIV102H1](#). Also excluded are [AST221H1](#), [ASTC25H3](#) if taken previously or concurrently.

Breadth Requirements: The Physical and Mathematical Universes (5)

AST121H1 - Origin and Evolution of the Universe

Hours: 24L/12T

The origin of the Universe and all that it contains, from the chemical elements, stars and galaxies, and life. The course is intended for students who are enrolling in science and engineering courses.

Prerequisite: SPH4U Physics; MCB4U Calculus

Exclusion: [AST101H1](#), [AST201H1](#), [AST210H1](#). Also excluded are [AST221H1](#), [AST222H1](#) if taken previously or concurrently.

Breadth Requirements: The Physical and Mathematical Universes (5)

AST198H1 - Great Astronomical Issues

Hours: 24S

There are some fundamental questions which humankind has asked itself over the centuries. Many of these involve astronomical origins, events, and objects. Astronomers now have the tools with which to attempt to answer some of the most fundamental questions, such as "Where did it all begin, where are we in space and time, are we alone,

to the physics courses can be substituted. Please consult the Undergraduate Chair.

and who and what are we?" This seminar will explore some of these great issues. The selection of topics will be made initially by the instructor, but will be modified by the seminar participants at the first class meeting. Topics could include: stellar evolution and the future of the Sun, origin of the elements, origin and future of the Universe, origin of the Earth, origin of life, and extinction of the dinosaurs, global warming, the scientific method, astronomy and the public. Participants will be expected to join actively in lively discussions and to prepare and lead some of the seminars. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: [AST199H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

AST199H1 - Astronomy at the Frontier

Hours: 24S

This seminar series aims at building up general scientific literacy, by discussing selected topics in current astronomy, cosmology, and space science. We will delve into the physical foundation behind the questions being asked and how the answers are being sought. Students will have an opportunity early in the course to select topics of particular interest to them and this will govern the choice of readings as well. Topics could include: formation of stars; lives and deaths of stars; stellar corpses: white dwarfs, neutron stars, and black holes; planets around other stars; recent results from Hubble and other telescopes; architecture of the solar system; exploration in the solar system; the invisible universe: dark energy and dark matter; first light; formation of galaxies; the age and future of the universe. Participants should be comfortable with basic mathematics and quantitative reasoning. Students will be expected to do independent research for essays, presentations, etc. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: [AST198H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

AST201H1 - Stars and Galaxies

Hours: 24L/12T

What we know about the properties and life cycles of stars, of galaxies, and of the Universe itself – and how we know it. How astronomers develop methods for understanding phenomena that span such vast ranges in

distance and time. This course is intended for students with no science or engineering background.

Exclusion: AST121H1, AST210H1, AST201H5, ASTA02H3, CIV100H1, CIV101H1, CIV102H1. Also excluded are AST221H1, AST222H1, ASTB23H3 if taken previously or concurrently.

Breadth Requirements: The Physical and Mathematical Universes (5)

AST210H1 - Great Moments in Astronomy

Hours: 24L

From the Copernican Revolution to twentieth century astrophysics. Emphasis is placed on the process of discovery which has led to major advances in knowledge about the Universe. The course includes an outline of some of the most significant puzzles of our day and an examination of the potential for new revolutions in our knowledge. This course is best suited to science students.

Exclusion: AST101H1, AST121H1, AST201H1

Breadth Requirements: The Physical and Mathematical Universes (5)

AST221H1 - Stars and Planets

Hours: 36L

The (astro)physics of stars and planets, their observed variety, their structure, formation and evolution. Introduction to telescopes and instrumentation.

Prerequisite: PHY132H1/ PHY152H1; MAT136H1/ MAT137Y1/ MAT157Y1

Exclusion: AST221H5, ASTB23H3, ASTC25H3

Breadth Requirements: The Physical and Mathematical Universes (5)

AST222H1 - Galaxies and Cosmology

Hours: 36L

The (astro)physics of stellar systems, galaxies, and the Universe, their structure, formation, and evolution.

Prerequisite: AST221H1/ AST221H5

Exclusion: AST222H5, ASTB23H3, ASTC25H3

Breadth Requirements: The Physical and Mathematical Universes (5)

AST251H1 - Life on Other Worlds

Hours: 24L/12T

Scholarly discussion of the probability that there are planets with life elsewhere in the universe, from the perspective of current ideas concerning the origin and evolution of the universe, the solar system and life. Search techniques and possibilities for interstellar travel and space colonies are discussed.

Exclusion: AST221H1, AST222H1, AST222H5, ASTB23H3, ASTC25H3

Breadth Requirements: The Physical and Mathematical Universes (5)

AST299H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

AST299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

AST301H1 - Observational Astronomy

Hours: 36P

A hands-on introduction to telescopes and observational astronomy for students with little experience in the physical sciences. Through laboratory exercises and observations of the sky, students will learn the techniques that have enabled the major discoveries of modern astronomy, from the expansion of the universe to the existence of Earth-like planets orbiting other stars. Hands-on activities will teach how telescopes work and how we can measure the distances, motion, and chemical composition of celestial objects. Basic arithmetic is used, but no advanced mathematics. This course is intended for students without a formal science background to gain experience with hands-on observational astronomy.

Prerequisite: [AST101H1](#)/ [AST201H1](#)/ [AST251H1](#)

Exclusion: [AST221H1](#), [AST222H1](#), [AST325H1](#), [AST326Y1](#), [AST110H5](#), [AST221H5](#), [AST222H5](#), [ASTB23H3](#), [ASTC25H3](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

JCA302H1 - The Bible and the Big Bang

Hours: 24L/12T

The origin of the Universe is addressed both by current physical cosmology and by religious interpretations of the Bible. This course explores how these approaches to the cosmos's origins differ and how they might be mutually informative. Core concepts in each domain will be examined and definitions carefully distinguished (e.g., 'nothing', 'cause', 'matter'): topics will include the question of temporal beginnings (scientific theories of spontaneous creation or an eternal universe vis-à-vis the doctrine of creation from nothing) and the problem of cosmic fine tuning (the multiverse vis-à-vis the idea of divine intervention).

Prerequisite: Completion of 4.0 credits

Recommended Preparation: [AST101H1](#)/ [AST201H1](#)/ [AST121H1](#)/ [AST221H1](#)/ [AST222H1](#), [SMC232H1](#)/ [CHC232H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

AST310H1 - Indigenous Worldviews & Astronomy

Hours: 24L

An in-depth exploration of astronomy, the Solar System, and the night sky through the lens of Indigenous knowledges, primarily that of Indigenous peoples from Turtle Island. Indigenous peoples have lived on Turtle Island since time immemorial and have a sophisticated relationship with the night sky that is influenced by their worldviews and their relationships with the land. In this course, students will learn about Indigenous perspectives for understanding nature and astronomy and learn to understand astronomy through these perspectives. Students will also learn about the intersection of western astronomy and ongoing colonization to understand the responsibilities of western astronomers for respecting treaties and Indigenous rights as well as presenting an Indigenous lens regarding space exploration.

Prerequisite: Any AST 100-level or AST 200-level course

Breadth Requirements: The Physical and Mathematical Universes (5)

AST320H1 - Introduction to Astrophysics

Hours: 24L/12T

The formation, equilibrium and evolution of structure on all astronomical scales from the largest to the smallest: universe, clusters of galaxies, galaxies, clusters of stars, gas clouds and stars.

Prerequisite: [PHY252H1](#)/ [PHY294H1](#)/ [PHY242H5](#)/ [PHYB52H3](#); [AST221H1](#), [AST222H1](#) (or equivalent AST readings; consult the instructor)

Breadth Requirements: The Physical and Mathematical Universes (5)

AST325H1 - Introduction to Practical Astronomy

Hours: 39P

Through experiment and observation, develop the core skills to collect, reduce, and interpret astronomical data. Develop understanding and usage of telescopes, instruments, and detectors; reduction and analysis methods; simulations and model fitting; data and error analysis.

Prerequisite: [AST221H1](#), [AST222H1](#) (or equivalent readings, consult the instructor)

Exclusion: [AST326Y1](#)

Recommended Preparation: Basic programming/scripting, numerical techniques (e.g., through [CSC108H1](#)/ [CSC148H1](#)).

Breadth Requirements: The Physical and Mathematical Universes (5)

AST326Y1 - Practical Astronomy

Hours: 78P

Through experiment and observation, develop the core skills to collect, reduce, and interpret astronomical data. Develop understanding and usage of telescopes, instruments, and detectors; reduction and analysis methods; simulations and model fitting; data and error analysis. This course is an expanded version of [AST325H1](#) that gives a wider exposure to practical astronomy.

Prerequisite: [AST221H1](#), [AST222H1](#) (or equivalent readings; consult the instructor)

Exclusion: [AST325H1](#)

Recommended Preparation: Basic programming/scripting, numerical techniques (e.g., through [CSC108H1](#)/ [CSC148H1](#))

Breadth Requirements: The Physical and Mathematical Universes (5)

AST398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

AST398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

AST399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

AST424H1 - Introduction to Astrophysical Research

Hours: 24L

A literature study that develops methods and skills applicable to research in the physical sciences, with an emphasis on communication, including writing proposals and reports, and delivering presentations. This course is intended for students in the final year of the Astronomy & Astrophysics Major. Students are required to attend the weekly departmental colloquia and G2000 talks. Not eligible for CR/NCR option.

Prerequisite: AST320H1

Exclusion: AST425Y1

Recommended Preparation: AST325H1/ AST326Y1

AST425Y1 - Research Topic in Astronomy

A research project done in consultation with an individual staff member in the Department leading to a detailed written report and oral presentation. This course is intended for students in the final year of the Astronomy and Physics specialist program. Students must enrol with the Undergraduate Secretary of the Department. Enrolment is guaranteed only for specialist students with at least a B+ average in program courses and requires identifying a supervisor. Not eligible for CR/NCR option.

Prerequisite: AST320H1, two of AST325H1/ AST326Y1, PHY324H1, PHY350H1, PHY354H1, PHY356H1, PHY357H1, PHY358H1, PHY407H1/ PHY408H1, PHY450H1, JPE395H1

Breadth Requirements: The Physical and Mathematical Universes (5)

AST430H1 - Supervised Study in Astronomy & Astrophysics

An individual study program chosen by the student with the advice of, and under the direction of, a staff member. Not eligible for CR/NCR option.

Prerequisite: Minimum GPA of 3.5 in Astronomy program courses and the permission of the Undergraduate Chair and the prospective adviser

Breadth Requirements: The Physical and Mathematical Universes (5)

AST431H1 - Supervised Study in Astronomy & Astrophysics

An individual study program chosen by the student with the advice of, and under the direction of, a staff member. Not eligible for CR/NCR option.

Prerequisite: Minimum GPA of 3.5 in Astronomy program courses and the permission of the Undergraduate Chair and the prospective adviser

Breadth Requirements: The Physical and Mathematical Universes (5)

AST431Y1 - Supervised Study in Astronomy & Astrophysics

An individual study program chosen by the student with the advice of, and under the direction of, a staff member. Not eligible for CR/NCR option.

Prerequisite: Minimum GPA of 3.5 in Astronomy program courses and the permission of the Undergraduate Chair and the prospective adviser

Breadth Requirements: The Physical and Mathematical Universes (5)

Biochemistry

Faculty List

Leadership

Chair of the Department

L. Harrington, BSc, MSc, PhD

Associate Chair, Undergraduate Coordinator

TBA

Associate Chair, Graduate Coordinator

T.F. Moraes, BSc, MSc, PhD

Associate Chair, Research

L. Attisano, BSc, PhD

Professors

K. Adeli, BSc, MSc, PhD
 D.W. Andrews, BSc, PhD
 S. Angers, BSc, PhD
 L. Attisano, BSc, PhD
 C.E. Bear, MSc, PhD
 G.W. Brown, BSc, PhD
 A. Chakrabarty, BSc, PhD
 H.S. Chan, BSc, PhD
 A.R. Davidson, BSc, PhD
 C.M. Deber, BSc, PhD, FRSC
 O.P. Ernst, Dipl-Chem, Dr rer nat
 J. Forman-Kay, BSc, PhD
 S. Grinstein, BSc, PhD, FRSC
 L. Harrington, BSc, MSc, PhD
 W. Houry, BSc, PhD
 P.L. Howell, BSc, PhD
 W. Kahr, MD, PhD, FRCP
 A. Kopus, PhD, MD
 L. Kay, BSc, PhD, FRSC, FRS
 F.W. Keeley, BSc, PhD
 S.O. Kelley, BA, PhD
 P.K. Kim, BSc, PhD
 A. Klip, MSc, PhD, FRSC
 T.F. Moraes, BSc, MSc, PhD
 A. Muise, BSc, MD, PhD
 J.R. Nodwell, BSc, PhD
 M. Ohh, PhD, PDF
 J. Parkinson, BSc, PhD
 G. Privé, BSc, PhD
 S. Prosser, BSc, MSc, D Phil
 M.L. Rand, BSc, PhD
 J. Rini, BSc, PhD
 D. Rotin, BSc, PhD
 J. Rubinstein, BSc, PhD
 C.J. Schuurmans, BSc, MSc, PhD
 F. Sicheri, BSc, PhD, FRSC

I. Stagljar, BSc Dipl-Mol Biol, PhD
 W. Trimble, BSc, PhD, FRSC
 C.M. Yip, BAsC, PhD

Associate Professors

A.W. Ensminger, BSc, PhD
 J-P Julien, BSc, PhD
 W. Lee, MD, PhD
 A. McQuibban, BSc, MSc, PhD
 K. Maxwell, BSc, PhD
 J.T. Maynes, BSc, MD, PhD
 R.A. Melnyk, BSc, PhD
 A.F. Palazzo, BSc, PhD
 R. Pomès, B Eng, PhD
 R. Screaton, BSc, PhD
 S. Sharpe, BSc, PhD
 C.A. Smibert, BSc, PhD
 J. Watts, BSc, PhD
 A.R. Wilde, BSc, PhD

Professor, Teaching Stream

S. Andreopoulos, BSc, MSc, PhD

Associate Professors, Teaching Stream

A. Khan-Trottier, BSc, PhD
 S. Patterson, BSc, PhD
 N. Lee, BSc, MSc, PhD

Assistant Professors

J. Ditlev, BSc, PhD
 S.A. Freeman, BSc, PhD
 H. Lee, BSc, PhD
 M. Lemaire, MD, PhD
 M. Norris, BSc, MSc, PhD
 A.N. Sawh, HBSc, PhD
 H. Wyatt, BSc, PhD

Emeriti

R.R. Baker, BSc, PhD
 A. Bennick, M Sc D, PhD
 N. Camerman, BSc, PhD
 D.M. Clarke, BSc, PhD
 J.R. Glover, BSc, PhD
 J.W. Gurd, BA, PhD
 C.J. Ingles, BSc, PhD
 D.E. Isenman, BSc, PhD
 A.O. Jorgensen, PhD
 V.K. Kalnins, MSc, PhD
 H.G. Lawford, BSc, PhD
 P.N. Lewis, BSc, PhD
 A. Marks, MD, PhD
 L.A. Moran, BSc, PhD
 E.F. Pai, Dipl-Chem, Dr rer nat
 R.H. Painter, BSc, PhD (T)
 D.E. Pulleyblank, BSc, PhD
 R.A.F. Reithmeier, BSc, PhD
 H. Schachter, BA, MD, PhD, FRSC
 J.M. Segall, BSc, PhD
 C.H. Siu, BA, PhD
 B. Steipe, MD, PhD
 D.O. Tinker, BSc, PhD

D.B. Williams, MSc, PhD
G.R. Williams, BSc, PhD, D Sc (S), FRSC

Introduction

Biochemistry is the study of the chemistry of living organisms. Biochemists seek a molecular explanation of life by attempting to understand its underlying principles. Biochemistry is concerned with the relevance of a molecule to an organism and the correlations between its structure and its function. Modern biochemistry grew out of the application of chemical techniques to biological problems and is the foundation of biological science and medicine. In many ways it combines biology and chemistry but the subject now covers such a broad range of activity that it is difficult to draw a neat border around biochemistry. Some of the most exciting areas of current biochemistry research include:

- structural biology
- enzyme mechanisms
- signal transduction and regulation
- biotechnology
- molecular cell biology
- gene expression and development
- metabolic diseases
- proteomics and bioinformatics
- molecular evolution
- protein folding
- membranes and transport

The Biochemistry Specialist Program is academically oriented and designed to provide students with a fundamental understanding of the theoretical and practical aspects of the discipline. The program offers broad training in problem solving specifically using a molecular approach. Biochemistry specialists gain experience in critical thinking and the skills required to evaluate scientific rationale. The Biochemistry Major Program offers students fundamental training in the science and gives each student in the program the chance to combine Biochemistry with another relevant Major Program. This may be within the Life Sciences or Basic Sciences, or may be within the arts. For example, the combination of Biochemistry with Economics or with English could provide students with training relevant to the fields of investment within biotechnology or scientific journalism. Students who excel within the Biochemistry Major Program may be offered the chance to enter the Specialist Program at the third year. Students who complete a B.Sc. in the Specialist Program are well prepared to continue their studies in graduate programs in Biochemistry and other Life Sciences. Graduates from either the Specialist or Major Programs may find employment in research and teaching. Employers include universities and colleges, government laboratories, clinical biochemistry laboratories, forensic laboratories, pharmaceutical companies, biotechnology companies, and many other industries. Skills learned in the Biochemistry Specialist and Major Programs are also helpful in other areas such

as marketing, finance, and law. Some biochemistry graduates continue their studies in medicine, dentistry or other health related programs. Regardless of where life takes them, our students benefit from a broad knowledge-based and logical framework that will help them navigate the waters ahead.

Students considering choosing either the BCH Specialist or BCH Major program are encouraged to attend program information sessions held throughout the academic year. Please note that the Specialist program is the clearest path to graduate studies in Biochemistry and to careers in research.

Associate Chair of Undergraduate Education, Dr. A. Ensminger, biochemistry.undergrad@utoronto.ca

Undergraduate Administrator, Jennifer Haughton, jennifer.haughton@utoronto.ca

For courses with enrolment restrictions, please contact Jennifer Haughton, jennifer.haughton@utoronto.ca

Enquiries: Medical Sciences Building, Room 5207 (416-978-2700)

Website: biochemistry.utoronto.ca

Biochemistry Programs

Biochemistry Specialist (Science Program) - ASSPE1762

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- [BIO120H1](#) and [BIO130H1](#)
- ([CHM135H1](#) and [CHM136H1](#))/ [CHM151Y1](#)
- ([MAT135H1](#) and [MAT136H1](#))/ [MAT137Y1](#)/
[MAT157Y1](#)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60%, or a grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade

average does not guarantee admission to the program. While it is difficult to predict what will constitute "competitive" course marks in a given year, based on previous years the estimate is: course marks = mid 80s; average = mid 80s. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at biochemistry.undergrad@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the Arts & Science Program Toolkit or the departmental website at www.biochemistry.utoronto.ca for more information.

Completion Requirements:

(14.0 credits, including at least 2.5 credits at the 400-level)

First Year:

1. [BIO120H1](#), [BIO130H1](#)
2. ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#)
3. ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/
[MAT157Y1](#)

First or Second Year:

([PHY131H1](#), [PHY132H1](#))/ ([PHY151H1](#), [PHY152H1](#))
[[PHY131H1](#), [PHY132H1](#) recommended]

Second Year:

1. [BCH242Y1](#)
2. [MGY280H1](#)
3. [BIO230H1](#)/ [BIO255H1](#)
4. [STA220H1](#)/ [STA288H1](#)
5. [CHM247H1](#)/ [CHM249H1](#)
6. [BIO260H1](#)/ [HMB265H1](#) (See NOTE 1)

Third Year:

1. [BCH340H1](#), [BCH377H1](#)
2. [MGY311Y1](#)

Fourth Year:

1. [BCH478H1](#)
2. 2.0 credits including at least 1.0 credit in BCH from: [BCH422H1](#), [BCH425H1](#), [BCH426H1](#), [BCH428H1](#), [BCH440H1](#), [BCH444H1](#), [BCH445H1](#),

[BCH446H1](#), [BCH448H1](#), [BCH449H1](#), [BCH450H1](#), [BCH479H1](#), [BCB420H1](#), [CHM447H1](#), [MGY420H1](#), [MGY425H1](#), [MGY428H1](#), [MGY441H1](#), [MGY450H1](#), [MGY470H1](#). Up to 1.0 credit from research project courses ([BCH372Y1](#)/ [BCH374Y1](#)/ [BCH472Y1](#)/ [BCH473Y1](#)) may count towards this requirement (See NOTE 2).

3. Additional courses (to bring the program total to 14.0 credits) from the following list: [BIO220H1](#)/ [CHM217H1](#)/ [CHM220H1](#) (See NOTE 3)/ [CHM223H1](#)/ one of [CSC108H1](#) or [CSC148H1](#)/ [MAT235Y1](#)/ [MAT237Y1](#)/ [STA221H1](#)/ [JPM300H1](#)/ any suitable 300-level course from CHM/ CSB/ EEB/ HMB/ IMM/ LMP/ MGY/ PCL/ PSL (departmental approval required)

NOTES:

1. Alternatively, [BIO260H1](#) may be taken in third year (due to timetable conflicts [BIO260H1](#) may not be taken in 2nd year).
2. Additional BCH research project courses can be taken as part of the 20.0 credits needed for your degree.
3. [CHM220H1](#) is highly recommended for students who are interested in pursuing studies in the physical aspects of biochemistry such as structural biology and molecular biophysics.

Biochemistry Major (Science Program) - ASMAJ1762

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- [BIO120H1](#) and [BIO130H1](#)
- ([CHM135H1](#) and [CHM136H1](#))/ [CHM151Y1](#)
- ([MAT135H1](#) and [MAT136H1](#))/ [MAT137Y1](#)/
[MAT157Y1](#)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60%, or a grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program. While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 70s; average = mid 70s. The underlying numeric final mark in

each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at biochemistry.undergrad@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) or the departmental website at www.biochemistry.utoronto.ca for more information.

Completion Requirements:

(8.0 credits, including 1.0 credit at the 400-level)

First Year:

1. [BIO120H1](#), [BIO130H1](#)
2. ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#)
3. ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/
[MAT157Y1](#)

Biochemistry Courses

BCH210H1 - Biochemistry I: Proteins, Lipids and Metabolism

Hours: 36L/24T

This introductory course in biochemistry will cover the fundamentals of proteins, enzymes, biological membranes and the metabolism of carbohydrates and lipids for energy production. This course is intended for students who are NOT taking [BCH242Y1](#) as part of their program.

Prerequisite: Successful completion of ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#) NOTE: CHM1** with COURSE EXCLUSION TO [CHM135H1](#) AND [CHM136H1](#) meet the Prerequisite requirement for [BCH210H1](#). Students with a SDF in [CHM135H1](#)/ [CHM136H1](#) are not permitted to enrol in [BCH210H1](#) until a final passing grade (50%) appears on the transcript. UTM students who have completed [CHM110H5](#) (exclusion to [CHM135H1](#)) & [CHM242H5](#) (exclusion to [CHM136H1](#)) will be permitted to enrol in [BCH210H1](#). UTSC students who have completed [CHMA11H3](#) (exclusion to [CHM135H1](#)) & [CHMB41H3](#) (exclusion to [CHM136H1](#)) will be permitted to enrol in [BCH210H1](#).

Exclusion: [BCH242Y1](#), [[CHM361H5](#)(UTM) and

Second Year:

1. [BCH210H1](#)
2. [BIO230H1](#)/ [BIO255H1](#)
3. [CHM247H1](#)/ [CHM249H1](#)

Third Year:

1. [BCH311H1](#)
2. [BCH370H1](#)
3. [CHM217H1](#)/ [CHM220H1](#)/ [BCH340H1](#)
4. 1.0 credit from [CHM217H1](#)*/ [CHM220H1](#)*/ [BCH340H1](#)* (* if not taken for the requirement immediately above)/ [BIO220H1](#)/ one of [BIO260H1](#) or [HMB265H1](#)/ [JPM300H1](#).

Note: The department is open to the use of 300-level non-field course(s) in

[CHM](#)/[CSB](#)/[EEB](#)/[HMB](#)/[IMM](#)/[LMP](#)/[MGY](#)/[PCL](#)/[PSL](#) to fulfill Requirement 4, but students must seek approval from the department prior to course enrolment.

Fourth Year:

1.0 credit from: [BCH422H1](#), [BCH425H1](#), [BCH426H1](#), [BCH428H1](#), [BCH440H1](#), [BCH444H1](#), [BCH445H1](#), [BCH446H1](#), [BCH448H1](#), [BCH449H1](#), [CHM447H1](#), [MGY441H1](#)

[CHM362H5](#)(UTM)], [[BIOC12H3](#)(UTSC) and [BIOC13H3](#)(UTSC)], [CHMB62H3](#)(UTSC)

Breadth Requirements: The Physical and Mathematical Universes (5)

BCH242Y1 - Introduction to Biochemistry

Hours: 64L/12T/18P

This introductory course in biochemistry will serve as the foundation for upper-level BCH courses taken by students specializing in biochemistry and related specialist programs. The major topics include protein structure, enzyme mechanisms and function, gene expression, lipid and membrane structure and function, and the metabolism of carbohydrates, lipids and amino acids for energy production. Laboratory techniques will also be introduced to understand the role of biochemistry for research. Please note that there are five laboratories accompanying this course. **(Lab fees:\$10)**

Prerequisite: ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#)

Exclusion: [BCH210H1](#) and [BCH311H1](#), [[CHM361H5](#) (UTM) and [CHM362H5](#) (UTM)], [[BIOC12H3](#) (UTSC) and [BIOC13H3](#) (UTSC)], [CHMB62H3](#) (UTSC)

Breadth Requirements: Living Things and Their

Environment (4), The Physical and Mathematical Universes (5)

BCH299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

JPM300H1 - Research Readiness and Advancing Biomedical Discoveries

Hours: 12L/24T

Explore how scientists leverage their knowledge and skills to advance academic biomedical discoveries from the laboratory to improve patient health through either commercialization or not-for-profit approaches. Students will learn about innovation and develop key research and industry skills including intellectual property, ethics, budget and project management; learn how to critically evaluate scientific evidence and effectively communicate to a wide audience. This hybrid student-centered course will include interactive online modules and in-class group work. Course work will focus on developing skills and knowledge to help you be successful in diverse research courses and future careers. Not eligible for CR/NCR option.

Prerequisite: Completion of 10.0 credits, BCH210H1/BCH242Y1

Recommended Preparation: PSL300H1, PSL301H1

Breadth Requirements: Living Things and Their Environment (4)

BCH311H1 - Biochemistry II: Nucleic Acids and Biological Information Flow

Hours: 24L/12T

Nucleic acids and flow of information in biological systems. Information storage and transmission by nucleic acids, as well as new molecular technologies will be discussed. Registration in one of the tutorial sessions is mandatory. Note: Students that have a SDF in BCH210H1 are not permitted to enrol in BCH311H1 until a final passing grade (50%) appears on the transcript. BCH2** WITH COURSE EXCLUSION TO BCH210H1 meets the prerequisite requirement for BCH311H1.

Prerequisite: BCH210H1/BIOC12H3 and BIOC13H3 [UTSC]

Exclusion: MGY311Y1, PSL350H1

Breadth Requirements: Living Things and Their Environment (4)

BCH340H1 - Proteins: From Structure to Function

Hours: 24L/6T

Proteins are the main functional units in the cell. In this course, a detailed overview of protein structure and function will be given with strong emphasis on the basic principles in the field. Students will be introduced to folded and intrinsically disordered proteins. Biophysical methods to study protein stability and folding will be discussed, as well as experimental approaches to determine protein structure and function. Students will be introduced to catalysis, kinetics, and the mechanisms that regulate enzyme activity. Finally, proteomic methods to studying protein networks in cells will be presented. The course will offer a solid basis in protein biochemistry. It is recommended for those interested in pursuing graduate studies or professional degrees in health or medicine.

Prerequisite: BCH210H1/BCH242Y1

Breadth Requirements: Living Things and Their Environment (4)

BCH370H1 - Laboratory Course in Biochemical Techniques

Hours: 24L/48P

This course is designed to provide hands-on experience at an introductory level, employing a variety of biochemical techniques commonly used in research and clinical diagnostic laboratories. This course is intended for students who are not proceeding further in biochemistry. It is highly recommended that students take this course in their third year as space is limited and priority will go to third-year students. This course will be offered in the FALL & WINTER terms. Attendance in the first week of class is mandatory in order to receive safety information and laboratory protocols. (Enrolment limited.) **(Lab fees: \$40)**

Prerequisite: BCH210H1

Exclusion: BCH377H1, CHM379H1

Breadth Requirements: Living Things and Their Environment (4)

BCH372Y1 - Summer Research in Biochemistry

Hours: 144P

This course provides opportunities to pursue an original individual research project in a particular area of biochemistry, under the direct supervision of a Biochemistry Department faculty member. Students are responsible for arranging for supervision by a Biochemistry Department faculty member. To apply for enrolment, students are required to complete the application form by contacting the Course Coordinator by the end of April. Not eligible for CR/NCR option.

Prerequisite: A final grade of 75% or higher in BCH242Y1.

Breadth Requirements: Living Things and Their Environment (4)

BCH373H1 - Independent Research Project

Hours: 72P

This course provides an opportunity for individual research with a specific topic of study. Students are mentored and supervised by research scientists and faculty associated with the University of Toronto. It provides students an opportunity to enhance and apply their knowledge and understanding learned in other courses. Direct supervision must be provided by a faculty member within the Department of Biochemistry. Not eligible for the CR/NCR option.

Prerequisite: (75% or higher in BCH242Y1)/(80% or higher in BCH210H1); BIO230H1; CHM247H1/CHM249H1; and approval of the course coordinator.

Corequisite: BCH375H1 can be combined with BCH373H1.

Exclusion: BCH473Y1, BCH374Y1

Breadth Requirements: Living Things and Their Environment (4)

BCH374Y1 - Research Project in Biochemistry

Hours: 144P

This course provides opportunities to pursue an original individual research project in a particular area of biochemistry, under the direct supervision of a Biochemistry Department faculty member. Students are responsible for arranging for supervision by a Biochemistry Department faculty member. To apply for enrolment, students are required to complete the

application form by contacting the Course Coordinator before the end of August. Not eligible for CR/NCR option.

Prerequisite: For Specialist: BCH242Y1 (75% or higher); BIO230H1; CHM247H1/CHM249H1. For Major: BCH210H1 (80% or higher); BIO230H1; CHM247H1/CHM249H1.

Breadth Requirements: Living Things and Their Environment (4)

BCH375H1 - Independent Research Project

Hours: 72P

This course provides an opportunity for individual research with a specific topic of study. Students are mentored and supervised by research scientists and faculty associated with the University of Toronto. It provides students an opportunity to enhance and apply their knowledge and understanding learned in other courses. Direct supervision must be provided by a faculty member within the Department of Biochemistry. Not eligible for the CR/NCR option.

Prerequisite: (75% or higher in BCH242Y1)/(80% or higher in BCH210H1); BIO230H1; CHM247H1/CHM249H1; and approval of the course coordinator.

Corequisite: BCH375H1 can be combined with BCH373H1.

Exclusion: BCH473Y1, BCH374Y1

Breadth Requirements: Living Things and Their Environment (4)

BCH377H1 - Biochemistry Laboratory I

Hours: 12L/48P

An introduction to fundamental laboratory techniques in modern biochemistry. Experiments illustrate and develop the concepts described in lecture courses and serve as a foundation for more advanced training in biochemistry laboratory courses. Enrollment in this course is generally restricted to students enrolled in the Biochemistry, Immunology, and Molecular Genetics & Microbiology (Genetics Stream) Specialist programs. **(Lab fees: \$25)**

Prerequisite: BCH242Y1

Exclusion: BCH370H1, CHM379H1

Breadth Requirements: Living Things and Their Environment (4)

BCH378H1 - Biochemistry Laboratory II

Hours: 12L/48P

This course builds upon the fundamental laboratory techniques acquired in BCH377H1. Students gain hands-on experience in experimental design and data analysis, exploring numerous modern and classic biochemistry and molecular biology experimental techniques used in research laboratories. Enrolment in this course is generally restricted to students enrolled in the Biochemistry Specialist program.

Prerequisite: BCH377H1

Breadth Requirements: Living Things and Their Environment (4)

BCH399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

JPM400Y1 - Biomedical Incubator Capstone Project

Hours: 240P/16S

Discover what it is like to be part of a biomedical innovation team. Develop and engage in biomedical research in a simulated small business/incubator setting under the guidance of a faculty mentor. Bring your proposed JPM300H1 project to life, while acquiring budget management, research, business and communication workplace skills for future careers. Enrolment is application-based. Application requirements and process are presented as part of the JPM300H1 course. Proposals will be reviewed by committee and successful proposals will be matched to a mentor. Not eligible for CR/NCR option.

Application required; contact department (undergrad.pharmtox@utoronto.ca) for more information.

Students will form teams and develop a research proposal based on either:

1. Faculty led concept requiring further development and testing, which would not normally be funded grants and would be tangential to ongoing research in the lab.

2. Student developed innovative idea that requires further development and testing. This should be a project that is not being investigated in a UofT research lab.

Prerequisite: A minimum of 75% in JPM300H1; completion of any of PCL367H1/ PCL368H1/ PSL372H1/ BCH370H1/ BCH377H1 or Permission of the Department.
Breadth Requirements: Living Things and Their Environment (4)

BCH422H1 - Membrane Proteins: Structure, and Function

Hours: 24L

Structural features of membrane proteins, their biogenesis and methods of analysis. Function of membrane proteins as transporters, channels, pumps and receptors. Molecular aspects of disease processes linked to membrane proteins.

Prerequisite: BCH210H1/ BCH242Y1; BCH311H1/ MGY311Y1/ PSL350H1

Breadth Requirements: Living Things and Their Environment (4)

BCH425H1 - Structural Biology: Principles and Practice

Hours: 24L

Theory of modern biophysical techniques as applied to the study of the structure and function of macromolecules; emphasis on X-ray crystallography, electron cryomicroscopy, NMR spectroscopy, and other spectroscopic methods.

Prerequisite: BCH210H1/ BCH242Y1. This is a problem-solving course and will require use of skills from introductory physics, math, and/or chemistry courses.

Breadth Requirements: Living Things and Their Environment (4)

BCH426H1 - Regulation of Signalling Pathways

Hours: 24L

This course is focused on the molecular aspects of signal transduction, covering how cells receive and then transmit signals via intracellular proteins such as kinases and phosphatase and how this ultimately regulates cell function. Specific topics covered include regulation and signalling by extracellular ligands including morphogens, growth factors and/or insulin, how signalling pathway crosstalk modulates cell function and low and high throughput methodological approaches used to elucidate signalling mechanisms.

Prerequisite: BCH210H1/ BCH242Y1; BCH311H1/ MGY311Y1/ PSL350H1

Breadth Requirements: Living Things and Their Environment (4)

BCH428H1 - Genomics of Microbial Communities in Human Health and Beyond

Hours: 24L/12P

There is a growing appreciation that microbes do not operate in isolation but form parts of larger populations and communities (microbiomes) with unique considerations for human health. Combining lectures, small group discussions, and a computer lab component, this course will cover how genomics can be applied to analyze microbial communities and the transformative discoveries that continue to result.

Prerequisite: BCH210H1/ BCH242Y1; BCH311H1/ MGY311Y1/ CSB349H1

Breadth Requirements: Living Things and Their Environment (4)

BCH440H1 - Protein Homeostasis

Hours: 24L

Protein homeostasis is dependent on the coordinated synthesis, folding, localization and degradation of the thousands of proteins in a living cell. This course deals with selected aspects of the process with emphasis on: i) protein folding and the role of chaperones, ii) protein degradation via the ubiquitin proteasome system, iii) protein folding and quality control in the ER and iv) ER-associated degradation and the unfolded protein response. The course will serve as a foundation for those with an interest in how cellular protein levels and conformations are maintained.

Prerequisite: BCH210H1/ BCH242Y1; BCH311H1/ MGY311Y1/ PSL350H1

Breadth Requirements: Living Things and Their Environment (4)

BCH444H1 - Protein Trafficking in the Secretory & Endocytic Pathways

Hours: 24L

This course examines the molecular details of the secretory and endocytic pathways in the cell. Some of the specific topics covered will include protein translocation into the ER, chaperones and protein folding in the ER,

retrotranslocation and protein degradation, the Unfolded Protein Response (UPR), vesicle biogenesis and ER-Golgi transport, regulated secretion, basic concepts in endocytosis and protein sorting in polarized cells. Emphasis is placed on current experimental approaches. A good understanding of basic biochemical methods is an asset.

Prerequisite: BCH210H1/ BCH242Y1; BCH311H1 (75% or higher)/ MGY311Y1 (75% or higher)/ PSL350H1 (75% or higher).

Breadth Requirements: Living Things and Their Environment (4)

BCH445H1 - Organelles in Cell Function and Death

Hours: 24L

Advanced principles and concepts of cell biology are covered, including the structure, life cycle, and dynamic behavior of cell organelles. The cellular processes regulated by organelles, including the life and death of the cell and cellular communication, are highlighted. The course will also cover techniques and technologies that have advanced studies of the cell.

Prerequisite: (BCH210H1/ BCH242Y1), (BIO230H1/ BIO255H1), (BCH311H1/ MGY311Y1/ PSL350H1)

Breadth Requirements: Living Things and Their Environment (4)

BCH446H1 - Membrane Dynamics of the Cell Surface

Hours: 24L

This course covers the principles and concepts related to molecular cell biology of the cell surface in multicellular organisms. Topics include: biophysical properties of cells, membranes, and extracellular matrix, dynamic remodelling of the cytoskeleton; cell-cell and cell-matrix interactions; maintenance of planar and apical-basal cell polarity; cytokinesis, viral uptake by macropinocytosis and engulfment by phagocytosis. In addition to lectures, groups of students will interpret a recent scientific paper related to the course material to be formally presented during regular class hours.

Prerequisite: BCH210H1/ BCH242Y1; BCH311H1/ MGY311Y1/ PSL350H1.

Exclusion: CSB331H1, CSB428H1

Breadth Requirements: Living Things and Their Environment (4)

BCH448H1 - Structure and Function of the Nucleus

Hours: 24L

This course examines the structure and function of the cell nucleus and the genome through the lens of biochemistry, molecular biology, cell biology and evolution. A focus is placed on the major scientific developments that shaped our current understanding. Topics that will be covered are eukaryogenesis, junk DNA, the structure of DNA and chromatin, the transfer of information between genotype and phenotype, the filtering of information found in the genome into biologically relevant molecules such as mRNA, the processing and export of these products from the nucleus into the cytoplasm, and the translation of mRNA into protein. We will also investigate how various organelles, such as the endoplasmic reticulum and mitochondria, played a role in the evolution of the nucleus. Finally we will investigate how biological information is partitioned during mitosis.

Prerequisite: BCH210H1/ BCH242Y1; BCH311H1/ MGY311Y1/ PSL350H1

Breadth Requirements: Living Things and Their Environment (4)

BCH449H1 - Medical Biochemistry

Hours: 24L/12T

This course will apply core biochemical principles to explain the pathogenesis of emerging diseases at the molecular level and describe advanced biochemical technologies used to understand and treat these illnesses. Students will be exposed to how biochemical principles influence medical diagnoses, therapy and the development of new drugs.

Prerequisite: BCH242Y1/(BCH210H1, BCH311H1), BIO230H1

Breadth Requirements: Living Things and Their Environment (4)

BCH450H1 - Antibiotics and Antibiotic Targets

Previous Course Number: BCH350H1

Hours: 24L/12T

This course will cover the action of the biochemical targets of the existing antibiotics (nucleotide-, RNA-, DNA-, protein- and cell wall synthesis, the manner in which these pathways are inhibited in antimicrobial therapy and the biochemical basis of antibiotic resistance. The biochemistry and origin of naturally occurring and

synthetic antibiotics will be introduced. (Enrolment limited.)

Prerequisite: BCH242Y1/(BCH210H1, BCH311H1)

Exclusion: BCH350H1

Breadth Requirements: Living Things and Their Environment (4)

BCH470H1 - Independent Research Project

Hours: 144P

This course provides an opportunity for individual research with a specific topic of study. Students are mentored and supervised by research scientists and faculty associated with the University of Toronto. It provides students an opportunity to enhance and apply their knowledge and understanding learned in other courses. Direct supervision must be provided by a faculty member within the Department of Biochemistry. Not eligible for the CR/NCR option.

Prerequisite: (BCH340H1; BCH377H1; BCH378H1; 75% or higher in MGY311Y1)/(BCH370H1; 80% or higher in BCH311H1); and approval of the course coordinator.

Corequisite: BCH478H1

Exclusion: BCH473Y1

Breadth Requirements: Living Things and Their Environment (4)

BCH471H1 - Independent Research Project

Hours: 144P

This course provides an opportunity for individual research with a specific topic of study. Students are mentored and supervised by research scientists and faculty associated with the University of Toronto. It provides students an opportunity to enhance and apply their knowledge and understanding learned in other courses. Direct supervision must be provided by a faculty member within the Department of Biochemistry. Not eligible for the CR/NCR option.

Prerequisite: (BCH340H1; BCH377H1; BCH378H1; 75% or higher in MGY311Y1)/(BCH370H1; 80% or higher in BCH311H1); and approval of the course coordinator.

Corequisite: BCH478H1

Exclusion: BCH473Y1

Breadth Requirements: Living Things and Their Environment (4)

BCH472Y1 - Advanced Summer Research Project in Biochemistry

Hours: 144P

This course provides opportunities to pursue an original individual research project in a particular area of biochemistry, under the direct supervision of a Biochemistry Department faculty member. Students are responsible for arranging for supervision by a Biochemistry Department faculty member. To apply for enrolment, students are required to complete the application form by contacting the Course Coordinator by the end of April. Not eligible for CR/NCR option.

Prerequisite: A final grade of 75% or higher in each of BCH340H1; BCH377H1.

Breadth Requirements: Living Things and Their Environment (4)

BCH473Y1 - Advanced Research Project in Biochemistry

Hours: 144P

This course provides opportunities to pursue an original individual research project in a particular area of biochemistry, under the direct supervision of a Biochemistry Department faculty member. Students are responsible for arranging for supervision by a Biochemistry Department faculty member. To apply for enrolment, students are required to complete the application form by contacting the Course Coordinator before the end of August. Not eligible for CR/NCR option.

Prerequisite: For Specialist: BCH340H1; BCH377H1; 75% or higher in MGY311Y1. For Major: BCH370H1; 80% or higher in BCH311H1.

Corequisite: BCH478H1

Breadth Requirements: Living Things and Their Environment (4)

BCH478H1 - Advanced Biochemistry Laboratory

Hours: 24L/84P

Experiments extend students' technical abilities as well as their knowledge and application of practical theory. This course is designed as an advanced successor in a progression of biochemistry laboratory experiences in BCH242Y1 and BCH377H1 that will equip students with a spectrum of practical abilities that are of vital importance in scientific research. **(Lab fees: \$25)**

Prerequisite: BCH340H1, BCH377H1, MGY311Y1

Breadth Requirements: Living Things and Their Environment (4)

BCH479H1 - Advanced Seminar in Biochemistry

Hours: 24S

This seminar course will foster close interactions between students and Faculty and encourage in depth discussion not only of results but the ways the results were presented and the rationales for experimental design. Critical thinking skills will be developed, as will presentation skills, as students become presenters of results and take on the role of scientist presenting and analyzing new findings. Writing skills will be developed through an essay assignment. Students within the audience will also have access to the experimental papers and be encouraged to pose thoughtful questions about research and the ways that research can be communicated within the scientific community. Thus the new seminar course will foster an appreciation of scientific writing and give students a venue to develop their communication skills. The goal of the seminar course is to improve both the written and oral scientific communication skills of our Specialist students, as well as to increase their knowledge of key papers in Biochemistry.

Prerequisite: BCH340H1; BCH377H1; BCH378H1; and permission of Department

Breadth Requirements: Living Things and Their Environment (4)

Biology

Introduction

Biology is the scientific study of life. At no time in history has biology been more visible and important to human life and the future of our planet. The study of biology has vast applications: in understanding one's own body, in improving human health and natural resources, in grappling with the ethical questions that face humanity and in understanding the interdependent web of living organisms on the planet. Important discoveries and advances in the biological sciences occur weekly as scientists and their students around the world develop and use new techniques, theories, and approaches.

The University of Toronto has an enormous depth of faculty members on the St. George campus who conduct leading-edge research and teach courses in the biological sciences. Within the Faculty of Arts and Science, St. George campus, there is no single biology department; members of the Departments of Cell & Systems Biology (CSB) and Ecology & Evolutionary Biology (EEB) teach biology courses across the broad spectrum of introductory to advanced topics. Each of these departments offers its own programs and courses, and jointly offer the Biology programs. These co-sponsored Programs of Study include **Biology** (Specialist, Major, Minor), **Bioinformatics & Computational Biology** (Specialist), and **Genome Biology** (Major). The program in Genome Biology also includes the Department of Molecular Genetics & Microbiology as a co-sponsor, and the program in Bioinformatics & Computational Biology additionally includes the Departments of Biochemistry and Computer Science as co-sponsors.

Students should consult the Cell & Systems Biology and Ecology & Evolutionary Biology entries in this Calendar about additional courses available in the broad subject areas of bioinformatics, cell and molecular biology, conservation and environmental biology, developmental biology, ecology, evolutionary biology, genetics, physiology, and genome biology. The diverse course offerings in the Biology programs allow students to customize their educational experience to match their personal interests and career aspirations.

High School Prerequisites and First-Year Requirements

Because many areas of biology draw on mathematics and the physical sciences, background preparation in calculus and chemistry from high school is required for students pursuing some programs in biology and recommended for others.

Students entering their first year in the life sciences take BIO120H1 and BIO130H1. These courses are taken by students who have successfully completed Grade 12 Biology (or an equivalent course); BIO130H1 also requires students to have successfully completed Grade 12 Chemistry (or an equivalent course). These single-semester courses are a prerequisite for almost all further courses in the life sciences. It is possible for students to enrol in BIO220H1 concurrently with BIO130H1.

All co-sponsored Biology programs have unlimited enrolment and no specific admission requirements. All students who have completed at least 4.0 credits are eligible to enrol (most single-semester courses are a 0.5 credit). Program completion requires 12.0-12.5 credits of courses for a Specialist, 8.0 credits for a Major, or 4.0 credits for a Minor. To fulfill graduation degree requirements, students must complete either one Specialist, two Majors, or one Major with two Minors. Students may choose a Specialist to focus in-depth on a single subject area or may pair complementing Majors (or Minors) to customize their education and training to encompass the breadth of their interests.

General Biology Programs

Students in the **Biology Specialist** and **Biology Major** programs obtain a foundation in the core areas of cell and molecular biology, ecology and biodiversity, evolutionary biology, physiology and genetics; as well as in calculus, chemistry and statistics (Specialist), or chemistry (Major). These programs are flexible in allowing students many possible course pathways that are compatible with completing program requirements, encouraging students to explore the diversity of their biological interests and to obtain broad training in life sciences. In the upper years, students take advanced courses in specific biological topics, and can also include courses in the biological sciences offered by other units. In their final year, students take at least 1.0 credit (*yearlong*) or two 0.5 credits (Specialist) or one 0.5 credit (Major) in an advanced integrative, inquiry-based course in the biological sciences offered by the departments of Cell & Systems Biology and Ecology & Evolutionary Biology, including seminar, independent research project, and field courses. Students who wish to focus either on plant and microbial biology or on animal biology can take courses within these programs that

concentrate in these subject areas. Students in these Biology Programs of Study prepare themselves for diverse life sciences career trajectories that depend on critical thinking and practical hands-on skills, including postgraduate study in biological sciences and medicine. The **Biology Minor** program offers students an introduction to cell and molecular biology, ecology, evolutionary biology, and physiology.

The Biology Specialist, Major and Minor programs are administered by the Department of Ecology & Evolutionary Biology, and co-sponsored by the Department of Cell & Systems Biology. Students requiring more information or advising about these programs are encouraged to visit the departmental website <https://eeb.utoronto.ca/education/undergraduate/> or to contact the EEB Undergraduate Office, Earth Sciences Centre (25 Willcocks St.), Room 3055B, undergrad.eeb@utoronto.ca, 416-978-2084.

Biology Programs in Genomics and Informatics

Genomics, the study of the structure, function and evolution of the genome, is among the newest and most rapidly growing fields of both basic and applied science, and nearly all of the more traditional disciplines in biology and medicine are being revolutionized by genomic tools. The growing flood of data on the DNA, RNA, and protein sequences of organisms provides unprecedented opportunities to address fundamental biological questions such as the causes of disease, the genetic basis of development, the nature of gene regulation, the extent and causes of adaptive evolution, and the history of species on planet earth, including humans. Genome biology and bioinformatics are highly interdisciplinary fields, encompassing concepts and practices from such diverse fields as cell and molecular biology, evolutionary genetics, and computer science. The **Bioinformatics & Computational Biology Specialist** program is an interdepartmental, interdisciplinary Program of Study that balances computer-science and life-science courses. Students in the **Genome Biology Major** program will receive a uniquely broad training in these concepts and practices, with a key focus on conceptual training in molecular biology, bioinformatics and evolutionary genetics, and practical training in both computational and wet-lab genomics research.

Note: The **Bioinformatics & Computational Biology Specialist** program has deregulated fees, which are incurred after enrolment in program. Please refer to the [Arts & Science Program Toolkit](#) for more information.

The Bioinformatics & Computational Biology Specialist and Genome Biology Major programs are administered by the Department of Cell & Systems Biology, and are co-

sponsored by the Departments of Ecology & Evolutionary Biology and Molecular Genetics & Microbiology. The Bioinformatics & Computational Biology Specialist additionally includes the Departments of Biochemistry and Computer Science as program co-sponsors. Students requiring more information or advising about these programs are encouraged to visit the departmental website, <https://csb.utoronto.ca/>, or contact the CSB Undergraduate Office, Ramsay Wright Building (25 Harbord St.), Room 424, 416-978-3477.

Biology Programs

General Biology Programs

Biology Specialist (Science Program) - ASSPE2364

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

The Biology Specialist, Major, and Minor programs are administered through the Department of Ecology & Evolutionary Biology. Contact: undergrad.eeb@utoronto.ca

(12.0 credits including at least 1.0 credit at the 400-level)

First Year (3.0 credits): BIO120H1; BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1; (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Higher Years:

1. 2.5 credits: BIO220H1; BIO230H1/ BIO255H1; BIO251H1/ EEB255H1/ EEB263H1/ EEB266H1/ EEB267H1/ EEB268H1; BIO270H1/ PSL300H1; BIO260H1/ HMB265H1

2. 0.5 credit in statistics from: EEB225H1, PSY201H1, STA220H1, STA257H1, GGR270H1, STA288H1

3. 0.5 credit from chemistry, physics or statistics: CHM220H1, CHM247H1/ CHM249H1, PHY131H1, PHY151H1, PSY202H1, STA221H1, STA255H1, STA261H1

4. 1.5 credits at the 200+ level from: BCH; BIO; CJH332H1; CSB (excluding CSB201H1, CSB202H1); EEB (excluding EEB202H1, EEB208H1, EEB214H1,

EEB215H1); EHJ352H1; ENV432H1; IMM250H1;
JHE353H1, JHE355H1; MGY200H1, MGY277H1;
NFS284H1; PSY397H1, PSY497H1

5. 0.5 credit at the 300+ level in **plant or microbial biology** from: CSB340H1, CSB350H1, CSB351Y1,
CSB353H1, CSB450H1, CSB451H1, CSB452H1,
CSB454H1, CSB459H1, CSB460H1, CSB475H1,
EEB328H1, EEB340H1, EEB403H0, EEB403H1,
EEB405H0, EEB405H1, EEB428H1, EEB440H1

6. 0.5 credit at the 300+ level in **animal biology** from:
CJH332H1, CSB325H1, CSB327H1, CSB328H1,
CSB329H1, CSB330H1, CSB331H1, CSB332H1,
CSB343H1, CSB346H1, CSB348H1, CSB426H1,
CSB427H1, CSB428H1, CSB429H1, CSB430H1,
CSB431H1, CSB432H1, CSB435H1, CSB445H1,
CSB447H1, CSB483H1; EEB322H1, EEB380H1,
EEB382H1, EEB384H1, EEB386H1, EEB388H1,
EEB390H1, EEB440H1, EHJ352H1

NOTE: BIO270H1 and BIO271H1 are prerequisites for 300+ level CSB courses in physiology.

7. 2.0 credits at the 300+ level (at least 1.0 credit must be from Group 1) from:

Group 1: CJH332H1; CSB; EEB; EHJ352H1; ENV432H1;
JHE353H1, JHE355H1; PSY397H1, PSY497H1

Group 2: ANA; ANT333Y1, ANT338H1, ANT430H1,
ANT436H1; BCH; HMB; IMM; NFS; MGY; PCL; PSL

8. 1.0 credit at the 400-level from: CSB; EEB

NOTE: Students who wish to focus on either **plant or microbial biology**, or **animal biology** should take courses in 7. and 8. that concentrate in these subject areas as listed in 5. and 6., respectively. BIO271H1/PSL301H1 is highly recommended for students concentrating in animal biology and is a prerequisite for 300+ level CSB courses in physiology.

Biology Major (Science Program) - ASMAJ2364

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

The Biology Specialist, Major, and Minor programs are administered through the Department of Ecology & Evolutionary Biology. Contact:
undergrad.eeb@utoronto.ca

(8.0 credits including at least 1.5 credits at the 300+ level and 0.5 credit at the 400 level)

First Year (2.0 credits): BIO120H1; BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1

Higher Years:

1. 2.5 credits: BIO220H1; BIO230H1/ BIO255H1;
BIO251H1/ EEB255H1/ EEB263H1/ EEB266H1/
EEB267H1/ EEB268H1; BIO270H1/ PSL300H1;
BIO260H1/ HMB265H1

2. 1.5 credits from: BCH; BIO; CJH332H1; CSB (excluding CSB195H1, CSB196H1, CSB197H1, CSB198H1, CSB199H1, CSB201H1, CSB202H1); EEB (excluding EEB196H1, EEB197H1, EEB198H1, EEB199H1, EEB202H1, EEB208H1, EEB214H1, EEB215H1); EHJ352H1; IMM250H1; JHE353H1, JHE355H1;
MGY200H1, MGY277H1; NFS284H1; PSY397H1, PSY497H1

3. 1.5 credits at 300+ level from: ANA; ANT333Y1, ANT338H1, ANT430H1, ANT436H1; BCH; CJH332H1; CSB; EEB; EHJ352H1; ENV432H1; HMB; IMM; JHE353H1, JHE355H1; MGY; PCL; PSL; PSY397H1, PSY497H1

4. 0.5 credit at 400-level from: CSB; EEB; ENV432H1

NOTE: Students who wish to focus on either **plant or microbial biology**, or **animal biology** should take courses in 2., 3., and 4. that concentrate in these subject areas (as listed below).

CSB and EEB courses in **plant or microbial biology**:
CSB340H1, CSB350H1, CSB351Y1, CSB353H1,
CSB450H1, CSB451H1, CSB452H1, CSB454H1,
CSB459H1, CSB460H1, CSB475H1; EEB268H1,
EEB328H1, EEB340H1, EEB405H0, EEB405H1,
EEB428H1, EEB440H1

CSB and EEB courses in **animal biology**: BIO271H1/PSL301H1; CJH332H1; CSB325H1, CSB327H1,
CSB328H1, CSB329H1, CSB330H1, CSB331H1,
CSB343H1, CSB346H1, CSB348H1, CSB426H1,
CSB427H1, CSB428H1, CSB429H1, CSB430H1,
CSB431H1, CSB432H1, CSB435H1, CSB445H1,
CSB447H1, CSB483H1; EEB263H1, EEB266H1,
EEB267H1, EEB322H1, EEB380H1, EEB382H1,
EEB384H1, EEB386H1, EEB388H1, EEB390H1,
EEB440H1; EHJ352H1. (BIO271H1/ PSL301H1 is highly recommended for students concentrating in animal biology and is a prerequisite for 300+ level CSB courses in physiology.)

Biology Minor (Science Program) - ASMIN2364

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

The Biology Specialist, Major, and Minor programs are administered through the Department of Ecology & Evolutionary Biology. Contact: undergrad.eeb@utoronto.ca

4.0 credits

First Year (1.0 credit): [BIO120H1](#), [BIO130H1](#)

Higher Years:

1. [BIO220H1](#)

2. [BIO230H1](#)/ [BIO255H1](#)

3. 0.5 credit from: [BIO251H1](#), [BIO260H1](#), [BIO270H1](#), [BIO271H1](#), [EEB255H1](#), [EEB263H1](#), [EEB266H1](#), [EEB267H1](#), [EEB268H1](#), [HMB265H1](#), [PSL300H1](#), [PSL301H1](#)

4. 1.5 credits (1.0 credit must be at the 300+ level) from: [BIO](#), [CJH332H1](#), [CSB](#) (excluding [CSB195H1](#), [CSB196H1](#), [CSB197H1](#), [CSB198H1](#), [CSB199H1](#), [CSB201H1](#), [CSB202H1](#)), [EEB](#) (excluding [EEB196H1](#), [EEB197H1](#), [EEB198H1](#), [EEB199H1](#), [EEB202H1](#), [EEB208H1](#), [EEB214H1](#), [EEB215H1](#)), [EHJ352H1](#), [ENV432H1](#), [HMB265H1](#), [JHE353H1](#), [JHE355H1](#), [MGY200H1](#), [MGY277H1](#), [PSY397H1](#), [PSY497H1](#)

Biology Programs in Genomics and Informatics

Bioinformatics and Computational Biology Specialist (Science Program) - ASSPE1868

The genomic and post-genomic era brings opportunities for new insight into all aspects of biology and medicine, based on the computational analysis of very large datasets in a biological context. The Bioinformatics and Computational Biology Program is an interdepartmental, interdisciplinary Program of Study that balances computer-science and life-science courses towards that goal. As a Specialist Program it is designed to prepare students for graduate studies in the field.

The Program is formally administered by the Department of Cell and Systems Biology and co-sponsored by the Departments of Biochemistry, Computer Science, Ecology and Evolutionary Biology, and Molecular Genetics; all sponsoring Departments have clear trajectories to extend

the Program into graduate studies in the respective Department.

Note: this program has deregulated fees, which are incurred after enrolment in the program. Please refer to [Arts & Science Registration Instructions](#) for more information.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- [BIO130H1](#) and ([CSC108H1](#)/ [CSC148H1](#)/ [CSC110Y1](#))
or
- [BIO230H1](#) and [CSC236H1](#)

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 75% in these required courses will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program. While it is difficult to predict what will constitute a "competitive" grade average in a given year, based on previous years the estimate is =mid 80s.

Applications from students lacking a numerical grade in one of the specified prerequisites may be considered on the basis of their entire academic record and the availability of space in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Bioinformatics & Computational Biology Specialist in the Summer after Year 2.

Completion Requirements:

Specialist program:
(12.5 credits)

First or second year:
Foundational courses (5.0 credits total)

(MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1
 (CSC108H1, CSC148H1)/ CSC110Y1
 (CSC111H1/ CSC165H1, CSC236H1)/ CSC240H1 (1)
CSC263H1/ CSC265H1
 (CHM135H1, CHM136H1)/ CHM151Y1
BIO130H1

Upper years:

Program requirements (7.5 credits total)

STA237H1/ STA247H1/ STA255H1/ STA257H1

CSC207H1

CSC209H1

CSC373H1

BIO230H1/ BIO255H1

BIO260H1/ HMB265H1

(BCH210H1, (BCH311H1/ CSB349H1/ MGY311Y1))/

BCH242Y1

BCH441H1/ MGY441H1/ CSB472H1

BCB330Y1

BCB410H1

BCB420H1

BCB430Y1

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream

Notes:

BCB students are allowed to enrol in up to 2.5 CSC credits at the 300/400-level

Course substitutions are possible with written permission of the Program Director. Note that the requirements for a co-sponsoring Department's major can normally be fulfilled with 0.5 to 3.5 additional credits. All Major programs in the co-sponsoring life science departments require BIO120H1, however, it is not formally a part of this Specialist Program's requirements.

(1) The "missing" 0.5 credit of the substitution does not have to be replaced. For details, please refer to the Computer Science Program instructions in this Calendar.

Former BCB students benefitted from taking CSB352H1, Bioinformatic Methods. They also found it to be helpful to take BCH441H1/ MGY441H1 prior to BCB410H1 due to BCB410H1's R programming requirement.

Quantitative Biology Major (Science Program) - ASMAJ2368

The Quantitative Biology Major program (8.0 credits) is designed for students with a deep interest in biology who wish to gain a strong grounding in quantitative methods and their application to biological questions. More than ever, advancements in biology, from the molecular through the organismal to the ecosystem level, require

quantitative thinking and skills along with a strong understanding of biological processes. Interdisciplinary research that draws from the natural sciences, mathematics, statistics and computer science, is an important aspect of modern biology. This major provides foundations in biology and quantitative approaches used to test and advance biological knowledge, and is appropriate for students who wish to pursue a career or graduate studies in a broad range of life sciences, ranging from biomedical to conservation to epidemiology.

The program is delivered through a mixture of classroom-learning and applied laboratory teaching, with an emphasis on understanding how quantitative methods inform our understanding of biology, and how they can be applied to test and develop new hypotheses. Students also have access to independent research opportunities that enhance professional skills, science communication, and the development and application of knowledge in quantitative biology.

Quantitative Biology Major students have priority enrollment in the EEB courses listed, but not in courses offered by other departments, such as STA, MAT, CSC, CSB and BCB. Students should be aware that some courses listed have prerequisites that are not listed below. For students intending to pursue graduate studies, it is strongly recommended that an independent research course such as EEB498Y1 be included as part of the Quantitative Biology major.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- BIO120H1 (70%)/ BIO130H1 (70%)
- CSC108H1 (70%)/ CSC148H1 (70%)/ CSC110Y1 (70%)/ MAT135H1 (70%)/ MAT136H1 (70%)/ MAT137Y1 (70%)/ MAT157Y1 (70%)

Completion Requirements:

(8.0 credits including at least 2.0 credits at the 300+ level, 0.5 of which must be at the 400 level)

First Year (2.5 credits):

BIO120H1, BIO130H1, EEB125H1/ CSC108H1/ CSC148H1/ CSC110Y1, (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Higher Years (5.5 credits):

1. 1.5 credits: BIO220H1, BIO230H1/ BIO255H1, BIO260H1/ HMB265H1

2. 1.0 credit in introductory probability and statistics: EEB225H1, GGR270H1, PSY201H1, PSY202H1, STA220H1, STA221H1, STA237H1, STA238H1, STA247H1, STA248H1, STA255H1, STA257H1, STA261H1, STA288H1
3. 0.5 credit in intermediate math: APM236H1, MAT221H1/ MAT223H1, MAT224H1, MAT240H1, MAT237Y1, MAT247H1
4. 1.0 credit from: CSB352H1, EEB319H1, EEB323H1, EEB324H1, EEB362H1, GGR337H1, GGR372H1, GGR373H1, PHY331H1
5. 1.0 credit from: APM346H1, APM446H1, APM461H1, APM462H1, BCH441H1, CSB472H1, CSC311H1, CSC320H1, CSC336H1, CSC343H1, CSC373H1, CSC384H1, CSC401H1, CSC412H1, CSC413H1, CSC420H1, EEB313H1, EEB430H1, EEB458H1, EEB459H1, EEB460H1, EEB463H1, EEB498Y1, EEB499Y1, MAT332H1, MAT335H1, MAT344H1, MAT351Y1, MGY428H1, PHY431H1, PSY305H1, STA302H1, STA303H1, STA304H1, STA305H1, STA355H1, STA365H1, STA480H1
6. 0.5 credit at 400 level from: BCB410H1, BCB420H1, BCH441H1, CSB435H1, CSB472H1, CSB498Y1, CSB499Y1, EEB430H1, EEB458H1, EEB459H1, EEB460H1, EEB463H1, EEB498Y1, EEB499Y1, PHY431H1, PSY474H1, STA480H1

First year: BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1; (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Higher years:

1. BIO220H1, BIO230H1/ BIO255H1; BIO260H1/ HMB265H1; EEB225H1/ STA220H1
2. Genomics fundamentals: BCH311H1/ CSB349H1/ MGY311Y1, CSB352H1; EEB323H1
3. 0.5 credit laboratory course from: CSB472H1, CSB474H1; EEB460H1
4. 1.0 credit genomics elective from: CSB330H1, CSB350H1, CSB397Y0, CSB427H1, CSB435H1, CSB450H1, CSB457H1, CSB458H1, CSB471H1, CSB473H1, CSB490H1, CSB491H1, CSB497H1/ CSB498Y1/ CSB499Y1; EEB362H1, EEB455H1, EEB458H1, EEB459H1, EEB462H1, EEB463H1, EEB397Y1/ EEB497H1/ EEB498Y1/ EEB499Y1; EHJ352H1, MGY350H1, MGY360H1, MGY428H1, MGY470H1, MGY480Y1

NOTE: Students taking CSB397Y0, CSB490H1, CSB491H1, CSB497H1/ CSB498Y1/ CSB499Y1, EEB397Y1/ EEB497H1/ EEB498Y1/ EEB499Y1 or MGY480Y1 are encouraged to conduct a genomics-related research project.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Genome Biology Major (Science Program) - ASMAJ2655

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Genome Biology Major in the Summer after Year 2.

Completion Requirements:

This program is a joint program of the departments of Cell & Systems Biology, Ecology & Evolutionary Biology, and Molecular Genetics. It is administered through the Department of Cell & Systems Biology.

(8.0 credits)

Data Science in the Life Sciences

Bioinformatics and Computational Biology Specialist (Science Program) - ASSPE1868

The genomic and post-genomic era brings opportunities for new insight into all aspects of biology and medicine, based on the computational analysis of very large datasets in a biological context. The Bioinformatics and Computational Biology Program is an interdepartmental, interdisciplinary Program of Study that balances computer-science and life-science courses towards that goal. As a Specialist Program it is designed to prepare students for graduate studies in the field.

The Program is formally administered by the Department of Cell and Systems Biology and co-sponsored by the Departments of Biochemistry, Computer Science, Ecology and Evolutionary Biology, and Molecular Genetics; all sponsoring Departments have clear trajectories to extend the Program into graduate studies in the respective Department.

Note: this program has deregulated fees, which are incurred after enrolment in the program. Please refer to Arts & Science Registration Instructions for more information.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO130H1 and (CSC108H1/ CSC148H1/ CSC110Y1)
or
- BIO230H1 and CSC236H1

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 75% in these required courses will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program. While it is difficult to predict what will constitute a "competitive" grade average in a given year, based on previous years the estimate is =mid 80s.

Applications from students lacking a numerical grade in one of the specified prerequisites may be considered on the basis of their entire academic record and the availability of space in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Bioinformatics & Computational Biology Specialist in the Summer after Year 2.

Completion Requirements:

Specialist program:
(12.5 credits)

First or second year:

Foundational courses (5.0 credits total)
(MAT135H1, MAT136H1/ MAT137Y1/ MAT157Y1
(CSC108H1, CSC148H1/ CSC110Y1
(CSC111H1/ CSC165H1, CSC236H1/ CSC240H1 (1)

CSC263H1/ CSC265H1
(CHM135H1, CHM136H1/ CHM151Y1
BIO130H1

Upper years:

Program requirements (7.5 credits total)
STA237H1/ STA247H1/ STA255H1/ STA257H1
CSC207H1
CSC209H1
CSC373H1
BIO230H1/ BIO255H1
BIO260H1/ HMB265H1
(BCH210H1, (BCH311H1/ CSB349H1/ MGY311Y1)/
BCH242Y1
BCH441H1/ MGY441H1/ CSB472H1
BCB330Y1
BCB410H1
BCB420H1
BCB430Y1

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream

Notes:

BCB students are allowed to enrol in up to 2.5 CSC credits at the 300/400-level

Course substitutions are possible with written permission of the Program Director. Note that the requirements for a co-sponsoring Department's major can normally be fulfilled with 0.5 to 3.5 additional credits. All Major programs in the co-sponsoring life science departments require BIO120H1, however, it is not formally a part of this Specialist Program's requirements.

(1) The "missing" 0.5 credit of the substitution does not have to be replaced. For details, please refer to the Computer Science Program instructions in this Calendar.

Former BCB students benefitted from taking CSB352H1, Bioinformatic Methods. They also found it to be helpful to take BCH441H1/ MGY441H1 prior to BCB410H1 due to BCB410H1's R programming requirement.

Quantitative Biology Major (Science Program) - ASMAJ2368

The Quantitative Biology Major program (8.0 credits) is designed for students with a deep interest in biology who wish to gain a strong grounding in quantitative methods and their application to biological questions. More than ever, advancements in biology, from the molecular through the organismal to the ecosystem level, require quantitative thinking and skills along with a strong understanding of biological processes. Interdisciplinary research that draws from the natural sciences,

mathematics, statistics and computer science, is an important aspect of modern biology. This major provides foundations in biology and quantitative approaches used to test and advance biological knowledge, and is appropriate for students who wish to pursue a career or graduate studies in a broad range of life sciences, ranging from biomedical to conservation to epidemiology.

The program is delivered through a mixture of classroom-learning and applied laboratory teaching, with an emphasis on understanding how quantitative methods inform our understanding of biology, and how they can be applied to test and develop new hypotheses. Students also have access to independent research opportunities that enhance professional skills, science communication, and the development and application of knowledge in quantitative biology.

Quantitative Biology Major students have priority enrollment in the EEB courses listed, but not in courses offered by other departments, such as STA, MAT, CSC, CSB and BCB. Students should be aware that some courses listed have prerequisites that are not listed below. For students intending to pursue graduate studies, it is strongly recommended that an independent research course such as EEB498Y1 be included as part of the Quantitative Biology major.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- BIO120H1 (70%)/ BIO130H1 (70%)
- CSC108H1 (70%)/ CSC148H1 (70%)/ CSC110Y1 (70%)/ MAT135H1 (70%)/ MAT136H1 (70%)/ MAT137Y1 (70%)/ MAT157Y1 (70%)

Completion Requirements:

(8.0 credits including at least 2.0 credits at the 300+ level, 0.5 of which must be at the 400 level)

First Year (2.5 credits):

BIO120H1, BIO130H1, EEB125H1/ CSC108H1/ CSC148H1/ CSC110Y1, (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Higher Years (5.5 credits):

1. 1.5 credits: BIO220H1, BIO230H1/ BIO255H1, BIO260H1/ HMB265H1
2. 1.0 credit in introductory probability and statistics: EEB225H1, GGR270H1, PSY201H1, PSY202H1, STA220H1, STA221H1, STA237H1, STA238H1,

STA247H1, STA248H1, STA255H1, STA257H1, STA261H1, STA288H1

3. 0.5 credit in intermediate math: APM236H1, MAT221H1/ MAT223H1, MAT224H1, MAT240H1, MAT237Y1, MAT247H1
4. 1.0 credit from: CSB352H1, EEB319H1, EEB323H1, EEB324H1, EEB362H1, GGR337H1, GGR372H1, GGR373H1, PHY331H1
5. 1.0 credit from: APM346H1, APM446H1, APM461H1, APM462H1, BCH441H1, CSB472H1, CSC311H1, CSC320H1, CSC336H1, CSC343H1, CSC373H1, CSC384H1, CSC401H1, CSC412H1, CSC413H1, CSC420H1, EEB313H1, EEB430H1, EEB458H1, EEB459H1, EEB460H1, EEB463H1, EEB498Y1, EEB499Y1, MAT332H1, MAT335H1, MAT344H1, MAT351Y1, MGY428H1, PHY431H1, PSY305H1, STA302H1, STA303H1, STA304H1, STA305H1, STA355H1, STA365H1, STA480H1
6. 0.5 credit at 400 level from: BCB410H1, BCB420H1, BCH441H1, CSB435H1, CSB472H1, CSB498Y1, CSB499Y1, EEB430H1, EEB458H1, EEB459H1, EEB460H1, EEB463H1, EEB498Y1, EEB499Y1, PHY431H1, PSY474H1, STA480H1

Genome Biology Major (Science Program) - ASMAJ2655

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Genome Biology Major in the Summer after Year 2.

Completion Requirements:

This program is a joint program of the departments of Cell & Systems Biology, Ecology & Evolutionary Biology, and Molecular Genetics. It is administered through the Department of Cell & Systems Biology.

(8.0 credits)

First year: BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1; (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Higher years:

1. [BIO220H1](#), [BIO230H1](#)/ [BIO255H1](#); [BIO260H1](#)/ [HMB265H1](#); [EEB225H1](#)/ [STA220H1](#)
2. Genomics fundamentals: [BCH311H1](#)/ [CSB349H1](#)/ [MGY311Y1](#), [CSB352H1](#); [EEB323H1](#)
3. 0.5 credit laboratory course from: [CSB472H1](#), [CSB474H1](#); [EEB460H1](#)
4. 1.0 credit genomics elective from: [CSB330H1](#), [CSB350H1](#), [CSB397Y0](#), [CSB427H1](#), [CSB435H1](#), [CSB450H1](#), [CSB457H1](#), [CSB458H1](#), [CSB471H1](#), [CSB473H1](#), [CSB490H1](#), [CSB491H1](#), [CSB497H1](#)/ [CSB498Y1](#)/ [CSB499Y1](#); [EEB362H1](#), [EEB455H1](#), [EEB458H1](#), [EEB459H1](#), [EEB462H1](#), [EEB463H1](#), [EEB397Y1](#)/ [EEB497H1](#)/ [EEB498Y1](#)/ [EEB499Y1](#); [EHJ352H1](#); [MGY350H1](#), [MGY360H1](#), [MGY428H1](#), [MGY470H1](#), [MGY480Y1](#)

NOTE: Students taking [CSB397Y0](#), [CSB490H1](#), [CSB491H1](#), [CSB497H1](#)/ [CSB498Y1](#)/ [CSB499Y1](#), [EEB397Y1](#)/ [EEB497H1](#)/ [EEB498Y1](#)/ [EEB499Y1](#) or [MGY480Y1](#) are encouraged to conduct a genomics-related research project.

Students in this program have the option to complete the [Arts & Science Internship Program](#) (ASIP) stream.

Discipline-Specific Biology Programs within CSB and EEB:

In addition to the co-sponsored Biology programs, the Departments of [Cell & Systems Biology](#) and [Ecology & Evolutionary Biology](#) each administer Specialist, Major and Minor programs with particular disciplinary emphases within the biological sciences of the Faculty of Arts and Science, St. George campus. Discipline-specific Major or Minor programs may be paired with each other, with the general Biology Major or Minor programs, or with programs from other departments in accord with the University's degree requirements. Students may seek more information about programs and courses offered by CSB and EEB from their respective Calendar entries:

- [Cell & Systems Biology](#) offers the **Animal Physiology** Major and **Cell & Molecular Biology** Major and Specialist programs
- [Ecology & Evolutionary Biology](#) offers the **Biodiversity & Conservation Biology** Major, **Ecology & Evolutionary Biology** Major and Specialist, and **Environmental Biology** Major and Minor programs

Other Discipline-Specific Programs in the Life Sciences:

Inside and outside the Faculty of Arts and Science on the St. George campus, several departments administer Specialist, Major and Minor programs with particular disciplinary emphases within life sciences. Many of the Life Science programs are collaborative programs given by the Faculty of Arts and Science and departments in the Temerty Faculty of Medicine. Students requiring more information and course details are encouraged to visit the corresponding departmental websites and departmental Calendar entries. These additional Life Science departments and programs are listed in this Calendar:

- [Biochemistry](#)
- [Human Biology](#)
- [Immunology](#)
- [Laboratory Medicine & Pathobiology](#)
- [Molecular Genetics & Microbiology](#)
- [Nutritional Sciences](#)
- [Pharmaceutical Chemistry](#)
- [Pharmacology & Toxicology](#)
- [Physiology](#)
- [Psychology](#)

Core Biology Courses

Courses with a BIO designation form core components of the biology curriculum and are taught by instructors from the Departments of [Cell & Systems Biology](#) and [Ecology & Evolutionary Biology](#). These core courses include [BIO120H1](#) and [BIO130H1](#) as well as [BIO220H1](#) and [BIO230H1](#) that are required for most life sciences programs at the University of Toronto.

The Departments of [Cell & Systems Biology](#) and [Ecology & Evolutionary Biology](#) together also offer **over 100 courses in biology** from the 200-level to the 400-level, which contribute to the course requirements and electives for the co-sponsored Biology programs. Topics range from animal behaviour, biodiversity, bioinformatics, cell and molecular biology, conservation and environmental biology, developmental biology, ecology, evolutionary biology, genetics, genome biology, neurobiology, plant biology, and physiology. They include course formats as small-class seminars, bench lab practicals, field excursions, computer labs, and individualized research experiences with research professors. These courses use designations CSB or EEB, as well as some collaborative course codes administered by these departments. Students are encouraged to view the full list of courses from these departments on their respective Calendar entries:

- [Cell & Systems Biology](#)

- Ecology & Evolutionary Biology

Biology Courses

BIO120H1 - Adaptation and Biodiversity

Hours: 24L/15P

Principles and concepts of evolution and ecology related to origins of adaptation and biodiversity. Mechanisms and processes driving biological diversification illustrated from various perspectives using empirical and theoretical approaches. Topics include: genetic diversity, natural selection, speciation, physiological, population, and community ecology, maintenance of species diversity, conservation, species extinction, global environmental change, and invasion biology. A lab coat is required. (Lab Materials Fee: \$26)

Prerequisite: Grade 12 Biology or equivalent. Students without high school Biology must consult the BIO120 Office (bio120@utoronto.ca)

Breadth Requirements: Living Things and Their Environment (4)

BIO130H1 - Molecular and Cell Biology

Hours: 36L/15P

One of the goals of modern biology is to understand how the basic building blocks of life give rise to biological form and function. This course provides students with a common lexicon to understand the key principles and concepts in molecular and cell biology, with a focus on how the building blocks of life lead to functioning cells. (Lab Materials Fee: approximately \$11). Lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these items (approximate cost is \$26).

Prerequisite: SBI4U and SCH4U (Grade 12 University Preparation Biology and Chemistry) or permission of department. Please contact bio130@utoronto.ca for more information.

Exclusion:
[BIOA01H3](#), [BIO152H5](#)

Breadth Requirements: Living Things and Their Environment (4)

BIO220H1 - From Genomes to Ecosystems in a Changing World

Hours: 24L/15P

Dynamics of genetic and ecological change in biological systems, from genomes to ecosystems. Evolutionary genetic and ecological perspectives on wide-ranging topics including disease, aging, sexual conflict, genetics of human differences, conservation, and global climate change. Applications of evolutionary, ecological, and molecular-genetic principles and processes. Responsibilities of human societies in a changing world. (Lab Materials Fee: \$26).

Prerequisite: [BIO120H1](#)

Recommended Preparation: [BIO130H1](#), [BIO230H1](#)

Breadth Requirements: Living Things and Their Environment (4)

BIO230H1 - From Genes to Organisms

Hours: 36L/15P

The genome is the "book of life," providing instructions to construct an organism. This course introduces genome biology and explores how the building blocks of life are networked into functioning organisms. We will investigate how cells perceive internal and external cues, how gene expression is shaped by this perception, and how these events give rise to tissues, organs, and whole organisms. (Lab Materials Fee: approximately \$16). Lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these items (approximate cost is \$26).

Prerequisite: [BIO130H1](#), ([CHM135H1](#), [CHM136H1](#))/([CHM138H1](#), [CHM139H1](#))/[CHM151Y1](#)

Exclusion: [BIO255H1](#)

Breadth Requirements: Living Things and Their Environment (4)

BIO251H1 - Form, Function and Development in Plants

Hours: 24L/12T

This course is an introduction to structure, function and ecology of vegetative and reproductive processes in plants with a focus on flowering plants and gymnosperms. Topics of study in lecture and laboratory tutorials include photosynthesis, transport processes, plant reproduction, patterns of plant growth and development, and the role of hormones in plant development.

Prerequisite: [BIO120H1](#)

Breadth Requirements: Living Things and Their Environment (4)

BIO255H1 - From Genes to Organisms with Advanced Laboratory

Hours: 36L/33P

The genome is the "book of life," providing instructions to construct an organism. This course introduces genome biology and explores how the building blocks of life are networked into functioning organisms. We will investigate how cells perceive internal and external cues, how gene expression is shaped by this perception, and how these events give rise to tissues, organs, and whole organisms. The Enhanced Laboratory provides the opportunity for greater laboratory skill development in modern investigative techniques and is intended for students interested in conducting their own laboratory research. (Lab Materials Fee: \$52). Lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these items (approximate cost is \$26).

Prerequisite: BIO130H1, (CHM135H1, CHM136H1)/(CHM138H1, CHM139H1)/ CHM151Y1, cGPA 3.0

Exclusion: BIO230H1

Recommended Preparation: BCH210H1 (taken concurrently or previously)

Breadth Requirements: Living Things and Their Environment (4)

BIO260H1 - Concepts in Genetics

Hours: 48L/12T

This is a problem based course which discusses classical, molecular, developmental, and population genetics and genomics with emphasis on model organisms for genetic analysis.

Prerequisite: BIO230H1/ BIO255H1

Exclusion: HMB265H1

Breadth Requirements: Living Things and Their Environment (4)

BIO270H1 - Animal Physiology I

Hours: 24L/9P

Animal physiology is a biological sub-discipline that aims to understand, in physical and chemical terms, how animals work. This course uses examples from throughout the animal kingdom, in a comparative approach, to introduce and study homeostasis and the endocrine system. Accompanying laboratories reinforce concepts introduced in lectures and provide opportunities for students to experience firsthand the role that experimentation, data collection, interpretation of data, and communication of data plays in the nature of the scientific process. (Lab Materials Fee: approximately \$11).

Lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these items (approximate cost is \$26).

Prerequisite: BIO130H1

Breadth Requirements: Living Things and Their Environment (4)

BIO271H1 - Animal Physiology II

Hours: 24L/9P

Animal physiology is a biological sub-discipline that aims to understand, in physical and chemical terms, how animals work. This course uses examples from throughout the animal kingdom in a comparative approach to introduce and study the nervous and cardiorespiratory systems. Accompanying laboratories reinforce concepts introduced in lectures and provide opportunities for students to experience firsthand the role that experimentation, data collection, interpretation of data, and communication of data plays in the nature of the scientific process. (Lab Materials Fee: approximately \$11). Lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these items (approximate cost is \$26).

Prerequisite: BIO270H1

Breadth Requirements: Living Things and Their Environment (4)

Business Fundamentals

Faculty List

Professor

D. Goldreich, BS, MS, MSIA, PhD

Associate Professors, Teaching Stream

M. Khan, BCom, MBA, CPA, CA, CGEIT, CISA, CITP

R. Tassone, BComm, MEd, CPA, CA

Assistant Professor, Teaching Stream

D. Richards, BA, MBA

Introduction

The Rotman School of Management offers a Certificate in Business Fundamentals, available to students across Arts & Science who are interested in enhancing their discipline-specific education with an introduction to business. The four courses of the Certificate cover a range of domains across the business spectrum. The courses are taught in a manner which makes them accessible to students from a variety of core disciplines.

Registration Instructions for Faculty of Arts & Science students can be found in the [Program Toolkit](#) and [Course Enrolment Instructions](#) sections of the Arts & Science website.

General inquiries should be directed to your [College Registrar's office](#).

Business Fundamentals Programs

Certificate in Business Fundamentals - ASCER2400

The purpose of this certificate is to provide all interested non-Rotman Commerce students in the Faculty of Arts & Science with an opportunity to obtain some basic business knowledge as part of their degree. This could be beneficial for all disciplines within the Faculty of Arts & Science as many students go on and work in a variety of businesses and industries or want some general understanding of management disciplines when entering the workforce. This will better equip students when going

on the job market by helping them signal some business knowledge and greater career readiness.

The certificate is offered by the Rotman School of Management and is composed of 2.0 credits that can be taken as part of a student's elective courses within the 20.0 credits that are required to complete a Bachelor's degree in the Faculty of Arts & Science. This certificate and included courses are not open to non-degree students.

Enrolment Requirements:

This is a limited enrolment certificate for any non-Rotman Commerce student in the Faculty of Arts & Science. A student who has completed 4.0 credits including [MGT100H1](#) or equivalent may enrol in the Certificate.

Completion Requirements:

(2.0 credits)

Successful completion of the following four courses (or their equivalents):

1. [MGT100H1](#)
2. [MGT201H1](#)
3. [MGT230H1](#)
4. [MGT250H1](#)

No courses in the Certificate in Business Fundamentals can be taken as Credit/No Credit if they are to fulfill certificate requirements.

Notes:

- [MGT100H1](#), [MGT201H1](#), [MGT230H1](#), [MGT250H1](#) have considerable overlap with [RSM100H1](#), [RSM219H1](#), [RSM230H1](#) and [RSM250H1](#) taught in Rotman Commerce. These courses are listed as exclusions to one another.
- Students who move from the Rotman Commerce program (BCOM) to another degree program (HBA/HBSc) within Arts & Science would be able to use any completed RSM course equivalents towards the completion of the Certificate in Business Fundamentals (e.g. [RSM100H1](#) would be deemed equivalent to [MGT100H1](#) as part of the Certificate in Business Fundamentals, etc).
- Students who move from a different degree program (HBA/HBSc) within Arts & Science to the Rotman Commerce program (BCOM) would be able to count these MGT courses towards their Rotman Commerce degree (conditional on being accepted to the program based on the requirements listed in the [Rotman Commerce section of the Calendar](#)). Please note that students who are accepted to Rotman Commerce after having completed 4.0 credits are charged retroactive program fees as applicable.

Business Fundamentals Courses

MGT100H1 - Fundamentals of Management

Previous Course Number: RSM100Y1

Hours: 24L

Introduction to management and its subdisciplines. Themes include business in a Canadian context, the nature of corporations, corporate governance, organizational behavior, operations, and strategy. Not open to Rotman Commerce students.

Exclusion: RSM100H1, RSM100Y1

Breadth Requirements: Society and its Institutions (3)

MGT201H1 - Fundamentals of Financial Accounting

Hours: 24L

Introduction to financial reporting and analysis that is used by companies to organize and evaluate data in light of their organization's goal. Emphasis is on decision-making and interpretation of financial statements and how they can be used to plan a firm's overall business activities through the use of real-world companies. Not open to Rotman Commerce students.

Prerequisite: MGT100H1 or equivalent, or enrolment in the Actuarial Science Specialist or Major

Exclusion: RSM219H1

Breadth Requirements: Society and its Institutions (3)

MGT230H1 - Introduction to Financial Markets

Hours: 24L

This course is an introduction to financial securities and financial markets. It discusses the structure and function of financial markets, financial institutions and market participants, as well as some tools for market analysis. The objective of the course is to provide students with basic knowledge required to understand the nature of financial securities and markets and current financial issues. Not open to Rotman Commerce students.

Prerequisite: MGT100H1

Exclusion: RSM230H1

Breadth Requirements: Society and its Institutions (3)

MGT250H1 - Fundamentals of Marketing

Hours: 24L

This course is designed to introduce students to the key principles of marketing. After taking the course, students will understand the marketing planning process, including segmentation, targeting, positioning, marketing analysis, and strategy. In addition, students will be able to make basic marketing decisions to profitably satisfy customer needs and execute marketing strategies including product development, pricing, distribution and communications. Not open to Rotman Commerce students.

Prerequisite: MGT100H1 or equivalent

Exclusion: RSM250H1

Breadth Requirements: Thought, Belief and Behaviour (2)

Canadian Institute for Theoretical Astrophysics

Faculty List

Professor and Interim Director

P.G. Martin, BSc, MSc, PhD, OC, FRSC, FRCGS

Professors

J.R. Bond, OC, MS, PhD, FRSC, FRS

R. Essick, BSc, PhD

M. Fishbach, BSc, PhD

N.W. Murray, BSc, PhD, FRSC

U-L. Pen, MSc, PhD, FRSC

B. Ripperda, BSc, MSc, PhD

A.C. Thompson, BSc, PhD

Introduction

The Canadian Institute for Theoretical Astrophysics (CITA) is an incorporated national institute hosted by the University of Toronto, conducting research covering all of modern astrophysical theory and analysis during this remarkable age of cosmic discovery. CITA has firmly established itself as one of the top five places in the world for such research; despite its small size CITA has had a large impact on the worldwide astrophysics community. Research at CITA is carried out by about 20 research fellows, 20 graduate students, and a limited number of undergraduate students, all supervised by full-time faculty members.

Canadian Institute for Theoretical Astrophysics Courses

CTA200H1 - Computational Astrophysics

Hours: 24L/12T

Research in theoretical astrophysics encompasses cosmology, galaxy formation and black holes. This course introduces students to modern computational techniques using large scale parallel numerical simulations, carried out at CITA and SciNet. This is an intensive two-week course taught in May.

Where do elements, planets, solar systems, stars, galaxies, the Universe, and life, come from? Questions like these fascinate everyone. Theorists at CITA analyze, interpret, and explain the astronomical observations that illuminate such questions, using laboratory-tested physical laws, or as recently seen, new physical laws that the observations require but which laboratory experiments have not been able, so far, to detect. The observational data are supplied by the recent and ongoing explosion in astronomical hardware, including CHIME, ARO, ALMA, the Hubble space telescope, x-ray, infrared, and ultra-violet space telescopes, and a host of others.

CITA courses are designed for students interested in doing undergraduate research in theoretical astrophysics, and are appropriate for computer science, engineering science, physical sciences and astronomy program students.

CITA works closely with two related academic units, the Department of Physics and the David A. Dunlap Department of Astronomy and Astrophysics (DADDAA). These departments conduct research in a broad range of fields. Undergraduate and graduate students will find diverse research opportunities through CITA and these two cognate units.

For enquiries about CITA's programming in theoretical astrophysics, please contact the Interim Director, Peter Martin: pgmartin@cita.utoronto.ca

Undergraduate Enquiries: murray@cita.utoronto.ca (416-978-1778)

Website: <http://www.cita.utoronto.ca>

Prerequisite: MAT135Y1/ MAT137Y1/ MAT157Y1; (PHY131H1, PHY132H1)/(PHY151H1, PHY152H1) or their equivalent.

Recommended Preparation: Physical science, mathematics and computation, or engineering

Breadth Requirements: The Physical and Mathematical Universes (5)

CTA299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

Prerequisite: MAT135Y1/ MAT137Y1/ MAT157Y1; (PHY131H1, PHY132H1)/(PHY151H1, PHY152H1) or their equivalent

Recommended Preparation: Physical science, mathematics and computation, or engineering

Breadth Requirements: The Physical and Mathematical Universes (5)

CTA395Y1 - Research Topic

Course credit for research under the supervision of a faculty member. Not eligible for CR/NCR option.

Prerequisite: Minimum 8.5 credits and no more than 14.0 credits, including courses in AST, CTA200H1, or permission

CTA396Y0 - Research Topic Abroad

Course credit for research or field studies abroad under the supervision of a faculty member. Not eligible for CR/NCR option.

Prerequisite: Minimum 8.5 credits and no more than 14.0 credits including courses in AST, CTA200H1, or permission of the instructor

Recommended Preparation: Physical science, mathematics and computation, or engineering

Breadth Requirements: The Physical and Mathematical Universes (5)

CTA398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

CTA399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

CTA495Y1 - Independent Topics in Astrophysics

A research project done in consultation with an individual staff member in the Institute leading to a detailed written report and oral presentation. This course is intended primarily for students in the final year of the Astronomy and Physics specialist program, although it is available to students in Engineering Science, Computer Science, or Mathematics. Students must enroll with the Undergraduate Secretary, Prof. Pen. Not eligible for CR/NCR option.

Prerequisite: 1.0 credit from: PHY324H1, PHY350H1, PHY354H1, PHY356H1, PHY357H1, PHY358H1, PHY395H1, PHY404H1, PHY408H1, AST325H1/ AST326Y1, or similar courses in Engineering Science or Mathematics.

Recommended Preparation: Physical science, mathematics and computation, or engineering

Breadth Requirements: The Physical and Mathematical Universes (5)

Centre for Caribbean Studies

Faculty List

Professors

N. Rodríguez, BA, PhD (Caribbean Studies/Spanish and Portuguese)
A. Trotz, BA, MPhil, PhD (Caribbean Studies/Women and Gender Studies)

Associate Professors

C. James, PhD (Caribbean Studies/Comparative Literature)
M.J. Newton, BA, D Phil (Caribbean Studies/History)

Assistant Professor

K. Edmonds, BA (Hons), MA, PhD (Caribbean Studies)

Introduction

Caribbean Studies is an interdisciplinary undergraduate program that consists of courses on Caribbean history and society, politics and economic development, literature and thought. Our courses deal with a wide range of issues including gender, religion, culture, ethnicity, race, development, language, colonialism, the environment and regional common markets. Caribbean Studies equips students to think about broad, theoretical and challenging intellectual issues and, at the same time, to ground that expansive thinking in deep understanding of the particular historical, political, economic, geographical, cultural and linguistic realities of the Caribbean and its diasporas. This combined interdisciplinary and area studies approach prepares students to think across disciplines about these kinds of questions, and to base their comparative, transnational and interdisciplinary thinking in concrete knowledge of the Caribbean and its people. The study of the Caribbean equips students to question the order of things, reflect on their own place in the world, and see past the Caribbean's size or current level of geo-political influence to recognize the inherent value and intellectual significance of all places and all people.

Contact:

Consult Director, Professor Conrad James, via email at crb.program@utoronto.ca.
For general enquiries, email julie.thomson@utoronto.ca.
Office: 45 Willcocks Street, Room M145

Centre for Caribbean Studies Programs

Caribbean Studies Specialist (Arts Program) - ASSPE1545

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Consult the Communications & Undergraduate Coordinator: crb.program@utoronto.ca.

(10.0 credits, including at least 4.0 credits at the 300+ level, 1.0 credit of which must be at the 400-level.)

First Year:

1. [CAR120Y1](#)

Higher Years:

2. 1.0 credit from [HIS230H1](#)/ [HIS231H1](#)/ [CAR220H1](#)/ [CAR221H1](#)/ [CAR225H1](#)/ [CAR226H1](#)
3. [JQR360H1](#)

4. 3.5 credits from the Core Group (including at least 2.5 credits at the 300+ level, at least 1.0 credit of which must be at the 400-level): [HIS230H1](#), [HIS231H1](#), [HIS474H1](#), [JHN323H1](#), [JLN327H1](#), [JLN427H1](#), [CAR220H1](#), [CAR221H1](#), [CAR225H1](#), [CAR226H1](#), [CAR315H1](#), [CAR316H1](#), [CAR317H1](#), [CAR321H1](#), [CAR324H1](#), [CAR325H1](#), [CAR328H1](#), [CAR329H1](#), [CAR332Y0](#), [CAR421H1](#), [CAR423H1](#), [CAR426H1](#), [CAR426Y1](#), [CAR428H1](#), [CAR429H1](#), [CAR499H1](#), [SPA486H1](#)
5. 2.0 credits from Group A (including at least 1.0 credit at the 300+ level).

6. 2.0 credits from Group A or B

Group A:

[ENG356Y1](#), [ENG369H1](#), [HIS106Y1](#), [HIS221H1](#), [HIS222H1](#), [HIS291H1](#), [HIS292H1](#), [HIS359H1](#), [HIS360H1](#), [HIS391Y1](#), [HIS392Y1](#), [HIS413H1](#), [HIS446H1](#), [HIS474H1](#), [POL442H1](#), [POL467H1](#), [SPA220Y1](#), [WGS450H1](#)

Group B:

[AMS200H1](#), [AMS300H1](#), [ANT207H1](#), [ANT320H1](#), [ANT322H1](#), [ANT324H1](#), [ANT345H1](#), [ANT346H1](#), [ANT364H1](#), [ANT370H1](#), [ANT372H1](#), [ANT374H1](#), [ANT388H1](#), [ANT407H1](#), [ANT412H1](#), [ANT420H1](#), [CDN335H1](#), [CIN332Y1](#), [CRI383H1](#), [CRI422H1](#), [CRI429H1](#), [CRI487H1](#), [DRM362H1](#), [DTS200Y1](#), [DTS401H1](#), [DTS402H1](#), [DTS403H1](#), [DTS404H1](#), [DTS406H1](#), [ECO306H1](#), [ECO313H1](#), [EEB215H1](#), [EEB255H1](#), [ENG270H1](#), [ENG285H1](#), [ENG329H1](#), [ENG356Y1](#), [ENG369H1](#), [ENG370Y1](#), [ENG385H1](#), [ENV322H1](#), [ENV422H1](#), [FOR201H1](#), [FOR306H1](#),

FRE272H1, FRE324H1, FRE332H1, FRE336H1, FSL100H1, FSL102H1, GGR112H1, GGR240H1, GGR241H1, GGR320H1, GGR329H1, GGR338H1, HIS324H1, HIS394H1, HIS457H1, INS201Y1, INS250H1, INS300Y1, INS302H1, INS322H1, INS355H1, INS360Y1, INS390H1, INS402H1, INS491Y1, JPR374H1, JPS315H1, LAS200H1, LAS201H1, AFR150Y1, CSE240H1, CSE270H1, AFR322H1, CSE345H1, CSE346H1, AFR351Y1, CSE446H1, CSE447H1, PHL316H1, PHL362H1, POL201H1, POL349H1, POL360H1, POL384H1, POL412H1, POL417Y1, POL426H1, POL445H1, POL447H1, RLG100H1, RLG233H1, SOC209H1, SOC214H1, SOC249H1, SOC308H1, SOC311H1, SOC367H1, SOC383H1, WGS273H1, WGS355H1, WGS369H1, WGS385H1, WGS426H1, WGS440H1, WGS450H1, WGS463H1

Note: Effective Fall 2021, courses associated with New College's African Studies, Caribbean Studies, and Critical Studies in Equity and Solidarity programs will have the new "AFR," "CAR," and "CSE" designators respectively.

Caribbean Studies Major (Arts Program) - ASMAJ1545

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Consult the Communications & Undergraduate Coordinator: crb.program@utoronto.ca.

(7 credits, including at least two credits at the 300+level, 0.5 of which must be at the 400-level)

First Year:

1. CAR120Y1

Higher Years:

2. 1.0 credit from HIS230H1/ HIS231H1/ CAR220H1/ CAR221H1/ CAR225H1/ CAR226H1

3. JQR360H1

4. 2.0 credits from the Core Group at the 300+ level, at least 0.5 of which must be at the 400-level: HIS474H1, JHN323H1, JLN327H1, JLN427H1, CAR315H1,

CAR316H1, CAR317H1, CAR321H1, CAR324H1, CAR325H1, CAR328H1, CAR329H1, CAR332Y0, CAR421H1, CAR423H1, CAR426H1, CAR426Y1, CAR428H1, CAR429H1, CAR499H1, SPA486H1

5. EITHER 2.5 credits from Group A or B OR

2.0 credits if taking 1.5 credits from HIS230H1/ HIS231H1/ CAR220H1/ CAR221H1/ CAR225H1/ CAR226H1 OR

1.5 credits if taking 2.0 credits from HIS230H1/ HIS231H1/ CAR220H1/ CAR221H1/ CAR225H1/ CAR226H1

Group A:

ENG356Y1, ENG369H1, HIS106Y1, HIS221H1, HIS222H1, HIS291H1, HIS292H1, HIS359H1, HIS360H1, HIS391Y1, HIS392Y1, HIS413H1, HIS446H1, HIS474H1, POL442H1, POL467H1, SPA220Y1, WGS450H1

Group B:

AMS200H1, AMS300H1, ANT207H1, ANT320H1, ANT322H1, ANT324H1, ANT345H1, ANT346H1, ANT364H1, ANT370H1, ANT372H1, ANT374H1, ANT388H1, ANT407H1, ANT412H1, ANT420H1, CDN335H1, CIN332Y1, CRI383H1, CRI422H1, CRI429H1, CRI487H1, DRM362H1, DTS200Y1, DTS401H1, DTS402H1, DTS403H1, DTS404H1, DTS406H1, ECO306H1, ECO313H1, EEB215H1, EEB255H1, ENG270H1, ENG285H1, ENG329H1, ENG356Y1, ENG369H1, ENG370Y1, ENG385H1, ENV322H1, ENV422H1, FOR201H1, FOR306H1, FRE272H1, FRE324H1, FRE332H1, FRE336H1, FSL100H1, FSL102H1, GGR112H1, GGR240H1, GGR241H1, GGR320H1, GGR329H1, GGR338H1, HIS324H1, HIS394H1, HIS457H1, INS201Y1, INS250H1, INS300Y1, INS302H1, INS322H1, INS355H1, INS360Y1, INS390H1, INS402H1, INS491Y1, JPR374H1, JPS315H1, LAS200H1, LAS201H1, AFR150Y1, CSE240H1, CSE270H1, AFR322H1, CSE345H1, CSE346H1, AFR351Y1, CSE446H1, CSE447H1, PHL316H1, PHL362H1, POL201H1, POL349H1, POL360H1, POL384H1, POL412H1, POL417Y1, POL426H1, POL445H1, POL447H1, RLG100H1, RLG233H1, SOC209H1, SOC214H1, SOC249H1, SOC308H1, SOC311H1, SOC367H1, SOC383H1, WGS273H1, WGS355H1, WGS369H1, WGS385H1, WGS426H1, WGS440H1, WGS450H1, WGS463H1

Note: Effective Fall 2021, courses associated with New College's African Studies, Caribbean Studies, and Critical Studies in Equity and Solidarity programs will have the new "AFR," "CAR," and "CSE" designators respectively.

Caribbean Studies Minor (Arts Program) - ASMIN1545

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Consult the Communications & Undergraduate Coordinator: crb.program@utoronto.ca.

(4.0 credits including at least 1.0 credit at the 300+level)

First Year:

1. CAR120Y1

Higher Years:

2. 1.0 credit from: [HIS230H1](#), [HIS231H1](#), [CAR220H1](#), [CAR221H1](#), [CAR225H1](#), [CAR226H1](#).

3. 1.0 credit from the Core Group: [HIS230H1](#), [HIS231H1](#), [HIS474H1](#), [JHN323H1](#), [JLN327H1](#), [JLN427H1](#), [CAR220H1](#), [CAR221H1](#), [CAR225H1](#), [CAR226H1](#), [CAR315H1](#), [CAR316H1](#), [CAR317H1](#), [CAR321H1](#), [CAR324H1](#), [CAR325H1](#), [CAR328H1](#), [CAR329H1](#), [CAR332Y0](#), [CAR421H1](#), [CAR423H1](#), [CAR426H1](#), [CAR426Y1](#), [CAR428H1](#), [CAR429H1](#), [CAR499H1](#), [SPA486H1](#).

4. 1.0 credit from the Core Group or Group A:

Group A:

[ENG356Y1](#), [ENG369H1](#), [HIS106Y1](#), [HIS221H1](#), [HIS222H1](#), [HIS291H1](#), [HIS292H1](#), [HIS359H1](#), [HIS360H1](#), [HIS391Y1](#), [HIS392Y1](#), [HIS413H1](#), [HIS446H1](#), [HIS474H1](#), [POL442H1](#), [POL467H1](#), [SPA220Y1](#), [WGS450H1](#)

Note: Effective Fall 2021, courses associated with New College's Caribbean Studies program will have the new "CAR" designator.

Centre for Caribbean Studies Courses

CAR120Y1 - Introduction to Caribbean Studies

Previous Course Number: NEW120Y1

Hours: 48L/24T

Explores the complex and diverse languages, geographies, regional and national histories, cultural practices, intellectual traditions and political and economic landscapes of the Caribbean region, its people and its diasporas. Students will be introduced to the main questions, themes, and debates in Caribbean Studies. Lectures and readings develop the skills to take an interdisciplinary approach to Caribbean Studies. This is a team taught course.

Exclusion: [NEW120Y1](#)

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

CAR215H1 - Caribbean Foodways Across History, Culture and Diaspora

Previous Course Number: CAR315H1

Hours: 24L

Examines the historical roots of regional Caribbean food from the colonial period to the present day, and then moves to study Caribbean food in the global and Caribbean-Canadian diasporas, in the literary imagination, as a marker of personal, group and national identity, and as cultural expression.

Prerequisite: Completion of 4.0 credits

Exclusion: [NEW315H1](#), [CAR315H1](#)

Recommended Preparation: [HIS230H1](#)/ [HIS231H1](#)/ [CAR120Y1](#)/ [CAR220H1](#)/ [CAR221H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

CAR220H1 - Comparative Caribbean Literature

Previous Course Number: NEW220H1

Hours: 24L

Introduction to the rich and multi-linguistic literary traditions of the Caribbean and its diaspora, focusing on both canonical and emergent texts of Caribbean literature. Texts not originally written in English are read in translation.

Exclusion: [NEW220H1](#), [NEW222H1](#), [NEW222Y1](#), [NEW223Y1](#)

Recommended Preparation: [CAR120Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CAR221H1 - Comparative Caribbean Literature and Visual Culture

Previous Course Number: NEW221H1

Hours: 24L

Focuses on recent literary and visual texts produced in the last decade, from the Caribbean, insular and continental, and its diaspora. Texts not originally written in English are read in translation. While [CAR220H1](#) is an excellent companion course, [CAR221H1](#) can be taken independently.

Exclusion: [NEW221H1](#), [NEW222H1](#), [NEW222Y1](#), [NEW223Y1](#)

Recommended Preparation: [CAR120Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CAR225H1 - Caribbean Societies

Previous Course Number: NEW225H1

Hours: 24L/12T

Offers an interdisciplinary introduction to Caribbean sociology, focusing on the writings of thinkers and scholars from the era of decolonization to the more contemporary period. Themes may include: colonial encounters in the making of Caribbean societies; the role of religion; popular consciousness; histories of capitalism and exploitation; the relationship between political institutions and the wider society; "development", dependency and "underdevelopment".

Exclusion: [NEW225H1](#), [NEW224Y1](#)

Recommended Preparation: [CAR120Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

CAR226H1 - Caribbean Political Thought

Previous Course Number: NEW226H1

Hours: 24L/12T

Examines currents of Caribbean political thought from the Haitian Revolution to the present. Themes may include: struggles for independence and liberation, particularly the Haitian and Cuban Revolutions; theories of dependency; Caribbean political systems; regional integration; contemporary political issues facing Caribbean societies today; analyses of capitalism by Caribbean thinkers.

Exclusion: [NEW226H1](#), [NEW224Y1](#)

Recommended Preparation: [CAR120Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

CAR316H1 - Caribbean Religions

Previous Course Number: NEW316H1

Hours: 24L

Explores the complex and dynamic practices, philosophies and political and cultural contexts of Caribbean religions. Topics may include the profound impact - in both the Caribbean and its diasporas - of Caribbean Christianities, Hinduism and Islam as well as Afro-Creole religions such as Vodun, Rastafari and Santeria.

Prerequisite: [HIS230H1](#)/ [HIS231H1](#)/ [CAR120Y1](#)/ [CAR220H1](#)/ [CAR221H1](#)/ [NEW224Y1](#)/ [CAR225H1](#)/ [CAR226H1](#)

Exclusion: [NEW316H1](#), [NEW329H1](#) (Special Topics in Caribbean Studies: Caribbean Religions), offered in Fall 2014 and Fall 2015

Breadth Requirements: Thought, Belief and Behaviour (2)

CAR317H1 - Caribbean Women Writers

Previous Course Number: NEW317H1

Hours: 24L

A critical feminist reading of selected works of fiction, poetry and essays by Caribbean women writers. The aim is to appraise the development of this literature, situate texts within the key social and political debates which have influenced the region's literary output, as well as to consider the implications of the environments within which these writers function.

Prerequisite: Completion of 4.0 credits.

Exclusion: [NEW317H1](#), [WGS330H1](#)

Recommended Preparation: [CAR120Y1](#)/ [CAR220H1](#)/ [CAR221H1](#)/ [WGS160Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CAR321H1 - Caribbean Visual Arts, Social Media and Performance

Previous Course Number: NEW321H1

Hours: 24L

Explores themes relating to visual arts, social media and theatre in the Caribbean. Topics may include: theatre, film, mixed media arts, the role of the internet and online publishing in the arts and the relationship between artists, the state and wider society.

Prerequisite: [HIS230H1](#)/ [HIS231H1](#)/ [CAR120Y1](#)/ [CAR220H1](#)/ [CAR221H1](#)/ [NEW224Y1](#)/ [CAR225H1](#)/ [CAR226H1](#)

Exclusion: [NEW321H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

JHN323H1 - Indigeneity in the Caribbean

Hours: 24L

Explores the legacies of the pre-Columbian era, as well as the post-1492 experiences of people of pre-Columbian Caribbean ancestry. Examines the origins and consequences of the Caribbean's narrative of "indigenous absence", as well as the relationship between indigeneity, globalization and diaspora.

Prerequisite: [INS201Y1](#)/ [HIS230H1](#)/ [HIS231H1](#)/ [CAR120Y1](#)/ [CAR220H1](#)/ [CAR221H1](#)/ [NEW224Y1](#)/ [CAR225H1](#)/ [CAR226H1](#)

Breadth Requirements: Society and its Institutions (3)

CAR324H1 - Capitalism and Crisis in the Caribbean

Previous Course Number: NEW324H1

Hours: 24L

This upper level course examines the interplay between wider global processes and intra-regional responses that together help shape contemporary Caribbean realities. Topics include: economic crisis and structural adjustment; tourism; the agricultural sector; the Caribbean Single Market and Economy; migration and diaspora.

Prerequisite: HIS230H1/ HIS231H1/ CAR120Y1/ CAR220H1/ CAR221H1/ NEW224Y1/ CAR225H1/ CAR226H1

Exclusion: NEW324H1, NEW324Y1

Breadth Requirements: Society and its Institutions (3)

CAR325H1 - Caribbean Women Thinkers

Previous Course Number: NEW325H1

Hours: 24L

An examination of the historical and political significance of writings (literary, political, scholarly) by Caribbean women who engage problems within Caribbean culture and provide insights into the endeavours of the peoples of the region.

Prerequisite: Completion of 4.0 credits.

Exclusion: NEW325H1

Breadth Requirements: Creative and Cultural Representations (1)

JLN327H1 - Culture and Modernity in the Hispanic Caribbean

Hours: 24L

Explores the Hispanic areas of the Caribbean including the Caribbean areas of continental Spanish-speaking America. Topics may include: regional politics, state and economy; revolutions and authoritarian regimes; popular culture, the arts and media; religion and society; gender and sexuality; state structures; diasporas and migration.

Prerequisite: HIS230H1/ HIS231H1/ CAR120Y1/ CAR220H1/ CAR221H1/ NEW224Y1/ CAR225H1/ CAR226H1/ LAS200H1/ LAS201H1

Breadth Requirements: Society and its Institutions (3)

CAR328H1 - Caribbean Indentureship and its Legacies

Previous Course Number: NEW328H1

Hours: 24L

Explores indentured migration and its legacies from the 17th century through to the present. Encourages students to think comparatively and transnationally about indentureship and diaspora, as well as indentured migration's relationship to contract and labour law.

Prerequisite: HIS230H1/ HIS231H1/ CAR120Y1/ CAR220H1/ CAR221H1/ NEW224Y1/ CAR225H1/ CAR226H1

Exclusion: NEW328H1, NEW326Y1

Breadth Requirements: Society and its Institutions (3)

CAR329H1 - Special Topics in Caribbean Studies

Previous Course Number: NEW329H1

Hours: 24L

An upper level course. Topics of study vary from year to year.

CAR332Y0 - Puerto Rican Culture and Environment

Hours: 48L

Based on readings, lectures, experiential activities and discussions, CAR332Y0 examines the cultural and environmental history of Puerto Rico. The course explores debates on colonialism, capitalist modernity, development, ecosystems, religion, race and politics. Such analysis will help with the consideration of Puerto Rico as the last colony of the Americas within the larger context of the Caribbean. The course will include on-site excursions related to the lectures and reading material covered. This course will be taught in English.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

CAR342Y0 - The Dominican Republic: Culture and Environment

Hours: 48L

This course examines the cultural and environmental histories of the Dominican Republic. It traces key moments in the nation's history which have been significant for both the environmental destiny and the cultural character of the society. We will pay special attention to the social and ecological consequences of the nation's tourist industry in the 21st century. In the process we cover a range of issues concerning global capitalism, ecopolitics, race and cultural production. The course includes weekly excursions and will be taught in English.

Prerequisite: Completion of 4.0 credits

CAR421H1 - Global Perspectives on the Haitian Revolution

Previous Course Number: NEW421H1

Hours: 24S

Examines the colonial pre-history of the Haitian Revolution (1791-1804). Explores how this transatlantic revolution unfolded, including the emancipation of slaves, Toussaint, Louverture, and the roles played by Spain, the United States and Britain. A reflection on the Revolution in contemporary literature and film.

Prerequisite: [HIS230H1](#)/ [HIS231H1](#)/ [CAR120Y1](#)/ [CAR220H1](#)/ [CAR221H1](#)/ [NEW224Y1](#)/ [CAR225H1](#)/ [CAR226H1](#)

Exclusion: [NEW421H1](#)

Breadth Requirements: Society and its Institutions (3)

CAR422H1 - Caribbean Regionalism

Previous Course Number: NEW422H1

Hours: 24S

In a public lecture in 1958, Trinidadian CLR James described Federation as the means to "accomplish the transition from colonialism to national independence." This course explores the shift from James' vision to Jamaican economist Norman Girvan's observation that contemporary "...governments tend to perceive supranationality as less an exercise in collective sovereignty and more a diminution of national sovereignty." Among the topics to be considered are: histories of regionalism; formal and informal dimensions of regional identity-making practices; freedom of movement; governance mechanisms; and widening and deepening debates, with particular reference to the non-Anglophone Caribbean and Latin America.

Prerequisite: Completion of at least 1.0 credit at the 300-level.

Exclusion: [NEW422H1](#), [NEW329H1](#) (Special Topics in Caribbean Studies: Caribbean Regionalism), offered in Winter 2018; [NEW423H1](#) (Special Topics in Caribbean

Studies: Caribbean Regionalism), offered in Winter 2019

Recommended Preparation: [CAR120Y1](#)/ [CAR220H1](#)/ [CAR221H1](#)/ [HIS231H1](#)

Breadth Requirements: Society and its Institutions (3)

CAR426H1 - Special Topics in Caribbean Studies

Previous Course Number: NEW426H1

Hours: 36S

An upper level seminar. Topics vary from year to year, depending on the instructor.

CAR426Y1 - Special Topics in Caribbean Studies

Previous Course Number: NEW426Y1

Hours: 72S

An upper level seminar. Topics vary from year to year, depending on the instructor.

CAR427H1 - Caribbean Diasporic Narratives: London, Paris, Toronto, Berlin, New York

Hours: 24S

Focusing on London, Paris, Toronto, Berlin and New York as major conduits through which the migratory flow of Caribbean literary production takes place, this course will explore both foundational and emergent works of fiction from the English, French and Spanish Caribbean.

Prerequisite: [HIS230H1](#)/ [HIS231H1](#)/ [CAR120Y1](#)/ [CAR220H1](#)/ [CAR221H1](#)/ [NEW224Y1](#)/ [CAR225H1](#)/ [CAR226H1](#)

JLN427H1 - Advanced Topics: The Hispanic Caribbean

Hours: 24S

Explores, in depth, a country in the Hispanic Caribbean or a theme relating to the Hispanic Caribbean. Topics vary each year and may include: Cuban society; Hispanic Caribbean revolutions; Hispanic Caribbean music, art and popular cultures; Hispanic Caribbean diasporas.

Prerequisite: HIS230H1/ HIS231H1/ JLN327H1/ LAS200H1/ LAS201H1/ CAR120Y1/ CAR220H1/ CAR221H1/ NEW224Y1/ CAR225H1/ CAR226H1

Exclusion: NEW427H1

Breadth Requirements: Society and its Institutions (3)

CAR428H1 - Caribbean Migrations and Diasporas

Previous Course Number: NEW428H1

Hours: 24S

Examines Caribbean migration in the post-slavery era. Topics include: Caribbean diasporas in the West; labour migrations such as the Panama Canal migration; Caribbean migrant communities in Central America; intra-regional migrations between the Caribbean islands; 'guest worker' programs; remittances and their impact; heritage tourism and 'return' migrations.

Prerequisite: HIS230H1/ HIS231H1/ CAR120Y1/ CAR220H1/ CAR221H1/ NEW224Y1/ CAR225H1/ CAR226H1

Exclusion: NEW428H1, HISC70H3

Breadth Requirements: Society and its Institutions (3)

CAR429H1 - Caribbean Diaspora in Canada

Previous Course Number: NEW429H1

Hours: 24S

Explores the transnational circuits through which the Caribbean diaspora makes a living and makes life in contemporary Canada. How do we make sense of the Caribbean experience in Canada? What might an engagement with the Caribbean teach us about Canada as a diasporic space?

Prerequisite: CDN355H1/ HIS230H1/ HIS231H1/ CAR120Y1/ CAR220H1/ CAR221H1/ NEW224Y1/ CAR225H1/ CAR226H1

Exclusion: NEW429H1, NEW329H1 (Special Topics in Caribbean Studies: Travels and Tribulations), offered in Summer 2013 and Summer 2014

Breadth Requirements: Society and its Institutions (3)

JGC439H1 - The Problem and Promise of Caribbean Freedom

Hours: 24L

This course surveys the institutional and ideological structures that have historically internally and externally governed the Caribbean; the patterns of uneven

development and crisis they have produced and the forms of agency, resistance they have produced. Centering the social, economic, and spatial inter-connectedness of the Caribbean territorial region and its increasingly de-territorialized diaspora, we explore possibilities for economic, social and climate justice for all Caribbean communities.

Prerequisite: 10.0 credits

Exclusion: GGR400H1 (Special Topic: The Problem and Promise of Caribbean Freedom), offered in Winter 2023

Recommended Preparation: 1.0 credit in Geography (SOC SCI/BR = 3)

Breadth Requirements: Society and its Institutions (3)

CAR499H1 - Advanced Topics in Caribbean Studies

Hours: 24S

A joint graduate/undergraduate upper-level seminar. Topics vary from year to year, depending on the instructor. Consult the Program Office for course enrolment procedures.

Prerequisite: CAR120Y1, at least 1.0 credit from the Caribbean Studies Core Group at the 300+ level. Students who do not meet the prerequisites are encouraged to contact the Program Office.

Cell and Systems Biology

Faculty List

Professors Emeriti

D.G. Butler, MSc, PhD, D Sc, FRSA (ZOO)
 J.R. Coleman, BSc, PhD (U)
 S.S. Desser, MSc, PhD (ZOO)
 D. Godt, Dipl in Bio, PhD
 M.C. Heath, BSc, PhD, FRSC (BOT)
 J.A. Hellebust, MA, PhD (BOT)
 V.J. Higgins, MS, PhD (BOT)
 E.W. Larsen, MSc, PhD
 R.A. Liversage, AM, PhD (ZOO)
 D.A. Lovejoy, BSc, PhD
 Y. Masui, MSc, PhD, FRSC (ZOO)
 P.A. Romans, MSc, PhD
 J.J.B. Smith, MA, PhD (N)
 I. Tallan, BSc, PhD (ZOO)
 S.L. Varmuza, MS, PhD
 J.P. Williams, BSc, PhD (BOT)
 R. Winklbauer, Dipl in Bio, PhD
 A.M. Zimmerman, MS, PhD (ZOO)

Associate Professor Emeritus

R. Stephenson, BSc, PhD

Professor and Chair of the Department

N.J. Provart, MSc, PhD

Professors and Associate Chairs

D. Christendat, BSc, PhD
 D. Desveaux, MSc, PhD
 J.A. Mitchell, BSc, PhD

Professors

M.G. AbouHaidar, MSc, PhD
 T. Berleth, Diplom, PhD
 A. Bruce, BA, PhD
 L.T. Buck, BSc, PhD
 B. Chang, AB, PhD
 D.R. Goring, MSc, PhD
 D.S. Guttman, BSc, PhD
 T.J. Harris, BSc, PhD
 P. McCourt, MSc, PhD
 A.M. Moses, BA, PhD
 E. Nambara, MSc, PhD
 J. Peever, MSc, PhD
 U. Tepass, MSc, PhD, FRSC
 V. Tropepe, BSc, PhD
 M.A. Woodin, MSc, PhD
 K. Yoshioka, MSc, PhD

Associate Professor

S.V. Plotnikov, MSc, PhD
 M.J. Ringuette, BSc, PhD

Assistant Professors

J.A. Calarco, BSc, PhD
 Q. Lin, BSc, PhD
 S. Lumba, BSc, PhD
 H.E. McFarlane, MSc, PhD
 A.L. Saltzman, BSc, PhD
 M. Shafer, HBS, MSc, PhD

Professor, Teaching Stream

M. Neumann, MSc, PhD

Associate Professors, Teaching Stream

C. Garside, MSc, PhD

Assistant Professors, Teaching Stream

J. Fraigne, MSc, PhD
 J.C. Pressey, BSc, PhD
 R. Sarpal, MSc, PhD
 K. Yip, BSc, PhD

Introduction

The study of life, biology, has been transformed in recent decades by powerful new ways of asking fundamental questions about how living organisms work. In particular, molecular and microscopy approaches are revealing the incredible complexity of cells. With additional principles drawn from chemistry, physics and information science, we are beginning to understand this complexity and how it transcends multiple scales to organize molecular networks and cellular systems into fully functional organisms.

The Department of Cell and Systems Biology brings together biologists who study life at the level of molecules to functioning individual organisms. Our research laboratories conduct cutting edge research of fundamental processes using a diverse range of model systems (bacteria, yeast, plants, nematodes, insects, fish, frogs, mice, mammalian cell culture and others). Our undergraduate programs reflect this diversity and research strength. Since cells are the basic units of life, it is important to understand how molecular mechanisms control cells and how cells organize the development and physiology of whole organisms. These relationships encompass molecular biology, cell biology, developmental biology, genetics and physiology. These relationships are also complex, requiring studies of dynamic molecular and cellular networks: systems biology. One core component of systems biology is the integration of large datasets arising from the genomics revolution. In addition, computer modeling and bioinformatics are integrated with biochemical, structural, molecular and microscopy studies to understand genomes, transcriptomes, proteomes and metabolomes of the cell and organism.

The Department of Cell and Systems Biology offers two core programs: Animal Physiology (Major) and Cell & Molecular Biology (Major and Specialist). Cell & Molecular Biology Major and Specialist students also have the option of pursuing one Disciplinary Focus in either Molecular Networks of the Cell, Plant Genomics and Biotechnology, or Stem Cells and Developmental Biology.

We also contribute to multi-department programs (Bioinformatics & Computational Biology, Biology, and Genome Biology). We administer Bioinformatics & Computational Biology (Specialist) and Genome Biology (Major).

Student Counselling and Enquiries:

Visit the departmental website: <https://csb.utoronto.ca/undergraduate-studies/> or contact the Undergraduate Office, Room 533 in the Ramsay Wright Laboratories (416-978-3477; undergrad.csb@utoronto.ca).

Cell and Systems Biology Programs

Bioinformatics and Computational Biology Specialist (Science Program) - ASSPE1868

The genomic and post-genomic era brings opportunities for new insight into all aspects of biology and medicine, based on the computational analysis of very large datasets in a biological context. The Bioinformatics and Computational Biology Program is an interdepartmental, interdisciplinary Program of Study that balances computer-science and life-science courses towards that goal. As a Specialist Program it is designed to prepare students for graduate studies in the field.

The Program is formally administered by the Department of Cell and Systems Biology and co-sponsored by the Departments of Biochemistry, Computer Science, Ecology and Evolutionary Biology, and Molecular Genetics; all sponsoring Departments have clear trajectories to extend the Program into graduate studies in the respective Department.

Note: this program has deregulated fees, which are incurred after enrolment in the program. Please refer to Arts & Science Registration Instructions for more information.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO130H1 and (CSC108H1/ CSC148H1/ CSC110Y1)
or
- BIO230H1 and CSC236H1

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 75% in these required courses will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program. While it is difficult to predict what will constitute a "competitive" grade average in a given year, based on previous years the estimate is =mid 80s.

Applications from students lacking a numerical grade in one of the specified prerequisites may be considered on the basis of their entire academic record and the availability of space in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Bioinformatics & Computational Biology Specialist in the Summer after Year 2.

Completion Requirements:

Specialist program:
(12.5 credits)

First or second year:

Foundational courses (5.0 credits total)
(MAT135H1, MAT136H1/ MAT137Y1/ MAT157Y1
(CSC108H1, CSC148H1/ CSC110Y1
(CSC111H1/ CSC165H1, CSC236H1/ CSC240H1 (1)
CSC263H1/ CSC265H1
(CHM135H1, CHM136H1/ CHM151Y1
BIO130H1

Upper years:

Program requirements (7.5 credits total)
STA237H1/ STA247H1/ STA255H1/ STA257H1
CSC207H1

CSC209H1
CSC373H1
BIO230H1/ BIO255H1
BIO260H1/ HMB265H1
 (BCH210H1, (BCH311H1/ CSB349H1/ MGY311Y1))/
BCH242Y1
BCH441H1/ MGY441H1/ CSB472H1
BCB330Y1
BCB410H1
BCB420H1
BCB430Y1

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream

Notes:

BCB students are allowed to enrol in up to 2.5 CSC credits at the 300/400-level

Course substitutions are possible with written permission of the Program Director. Note that the requirements for a co-sponsoring Department's major can normally be fulfilled with 0.5 to 3.5 additional credits. All Major programs in the co-sponsoring life science departments require BIO120H1, however, it is not formally a part of this Specialist Program's requirements.

(1) The "missing" 0.5 credit of the substitution does not have to be replaced. For details, please refer to the Computer Science Program instructions in this Calendar.

Former BCB students benefitted from taking CSB352H1, Bioinformatic Methods. They also found it to be helpful to take BCH441H1/ MGY441H1 prior to BCB410H1 due to BCB410H1's R programming requirement.

Cell & Molecular Biology Specialist (Science Program) - ASSPE1003

Students learn how genes and proteins organize cells for cellular activities, multicellular development, and cellular interactions with the environment. Students also learn how cell and molecular biology research is conducted, and receive training in advanced techniques of the field. Cell and molecular biology research is one the most demanding fields in science. Students gain an understanding of the field, and leave the program equipped to tackle fundamental scientific questions.

After foundational courses in first and second year, students participate in advanced lecture, seminar and laboratory courses, and are encouraged to apply for research project courses in the laboratories of the Department. Course offerings include gene expression, cell biology, developmental biology, plant development, plant-microbe interactions, plant signaling, neurogenesis,

tissue morphogenesis, stem cell biology, genomics and proteomics.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses

The following courses are required:

- BIO120H1, BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- JMB170Y1/(MAT135H1 and MAT136H1)/
MAT137Y1/ MAT157Y1

Variable Minimum Grade

A minimum grade in some courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO130H1 or BIO230H1/ BIO255H1

To ensure that students admitted to the program will be prepared, applicants with a final grade lower than 70% in BIO130H1 or BIO230H1/ BIO255H1 will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Cell & Molecular Biology Specialist in the Summer after Year 2.

Completion Requirements:

(12.5 credits, including at least 1.0 credit at the 400-level)

First Year:

BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/
CHM151Y1; JMB170Y1/ (MAT135H1, MAT136H1)/
MAT137Y1/ MAT157Y1.

Higher Years:

1. (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)
2. BIO220H1, BIO230H1/ BIO255H1, BIO270H1,
BIO271H1, BIO260H1/ HMB265H1; BCH210H1
3. CSB330H1/ CSB350H1/ CSB352H1, CSB349H1

4. 1.0 credit from: CJH332H1, CSB327H1, CSB328H1, CSB329H1, CSB331H1, CSB340H1, CSB353H1
 5. 1.0 credit from: BCH422H1, BCH426H1, BCH444H1, BCH445H1, CSB427H1, CSB428H1, CSB429H1, CSB430H1, CSB431H1, CSB435H1, CSB450H1, CSB451H1, CSB452H1, CSB454H1, CSB457H1, CSB458H1, CSB459H1, CSB460H1, CSB471H1, CSB472H1, CSB473H1, CSB474H1, CSB475H1, CSB483H1
 6. 2.5 credits from: BCH422H1, BCH426H1, BCH440H1, BCH444H1, BCH445H1, CJH332H1, CSB299Y1, CSB327H1, CSB328H1, CSB329H1, CSB330H1, CSB331H1, CSB340H1, CSB350H1, CSB351Y1, CSB352H1, CSB353H1, CSB360H1, CSB397Y0, CSB399Y1, CSB427H1, CSB428H1, CSB429H1, CSB430H1, CSB431H1, CSB435H1, CSB447H1, CSB450H1, CSB451H1, CSB452H1, CSB453H1, CSB454H1, CSB457H1, CSB458H1, CSB459H1, CSB460H1, CSB471H1, CSB472H1, CSB473H1, CSB474H1, CSB475H1, CSB483H1, CSB490H1, CSB491H1, CSB492H1, CSB497H1, CSB498Y1, CSB499Y1, HMB496Y1, HMB499Y1, MGY441H1, MGY480Y1.

NOTE: No more than 0.5 credit in BCH can be used towards requirements 5. and 6.

The Cell & Molecular Biology Specialist Program has the additional option of a Disciplinary Focus.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Cell & Molecular Biology Specialist: Focus in Molecular Networks of the Cell - ASSPE1003A

Starting in 2nd year, this focus organizes a restricted number of highly motivated Cell and Molecular Biology Specialist students with an interest in Molecular Networks of the Cell. Focus students are required to complete a subset of related program courses and to participate in a learning community for the focus.

Enrolment Requirements:

Once you have been approved for and have enrolled in the Cell and Molecular Biology Specialist program, you have the option to apply for entry into a focus. The focuses have a limited enrolment and can only accommodate a restricted number of students with a particular interest in the topic of the focus. **Students can only apply for one focus.** Admission will be determined with a minimum grade of 80% in BIO130H1. If the student does not achieve 80% in BIO130H1, admission can be determined with a minimum grade of 80% in BIO230H1,

BIO255H1 or CSB349H1. On the application form, students must include a 300-word statement of interest regarding the topic of the focus. Statement submission instructions are in the Undergraduate program section of the CSB website, <http://csb.utoronto.ca>. Achieving these requirements does not necessarily guarantee admission to the focus in any given year.

Students in a focus complete the requirements of First Year, the requirements 1.-3. of Higher Years, as well as requirements 4.-7 specific to each focus.

Each year students are enrolled in a focus, they must also be an active participant in the faculty-led learning community for their focus (requirement 7.). The learning community appears as a non-credit course recognized on the co-curricular record. Students who fail to contribute to the faculty-led learning community will be removed from the focus.

Completion Requirements:

This Focus is part of the Cell and Molecular Biology Specialist and begins with the requirements of First Year and of lines 1-3 of Higher Years of the Cell and Molecular Biology Specialist Program.

4. 1.0 credit from: CJH332H1, CSB327H1, CSB331H1, CSB353H1
 5. 1.0 credit from: CSB427H1, CSB428H1, CSB429H1, CSB435H1, CSB451H1, CSB454H1, CSB457H1, CSB458H1, CSB459H1, CSB460H1, CSB475H1
 6. 2.5 credits from: BCH422H1, BCH426H1, BCH440H1, BCH444H1, BCH445H1, CJH332H1, CSB299Y1, CSB327H1, CSB328H1, CSB329H1, CSB330H1, CSB331H1, CSB340H1, CSB350H1, CSB351Y1, CSB352H1, CSB353H1, CSB397Y0, CSB399Y1, CSB427H1, CSB428H1, CSB429H1, CSB430H1, CSB431H1, CSB435H1, CSB447H1, CSB450H1, CSB451H1, CSB452H1, CSB454H1, CSB457H1, CSB458H1, CSB459H1, CSB460H1, CSB472H1, CSB473H1, CSB474H1, CSB475H1, CSB483H1, CSB490H1, CSB491H1, CSB492H1, CSB497H1, CSB498Y1, CSB499Y1, MGY441H1. No more than 0.5 credit in BCH can be used towards this requirement.
 7. Molecular Network Learning Community (each year of focus enrolment)

Cell & Molecular Biology Specialist: Focus in Plant Genomics and Biotechnology - ASSPE1003B

Starting in 2nd year, this focus organizes a restricted number of highly motivated Cell and Molecular Biology Specialist students with an interest in Plant Genomics and Biotechnology. Focus students are required to complete a

subset of related program courses and to participate in a learning community for the focus.

Enrolment Requirements:

Once you have been approved for and have enrolled in the Cell and Molecular Biology Specialist program, you have the option to apply for entry into a focus. The focuses have a limited enrolment and can only accommodate a restricted number of students with a particular interest in the topic of the focus. **Students can only apply for one focus.** Admission will be determined with a minimum grade of 80% in BIO130H1. If the student does not achieve 80% in BIO130H1, admission can be determined with a minimum grade of 80% in BIO230H1, BIO255H1 or CSB349H1. On the application form, students must include a 300-word statement of interest regarding the topic of the focus. Statement submission instructions are in the Undergraduate program section of the CSB website, <http://csb.utoronto.ca>. Achieving these requirements does not necessarily guarantee admission to the focus in any given year.

Students in a focus complete the requirements of First Year, the requirements 1.-3. of Higher Years, as well as requirements 4.-7 specific to each focus.

Each year students are enrolled in a focus, they must also be an active participant in the faculty-led learning community for their focus (requirement 7.). The learning community appears as a non-credit course recognized on the co-curricular record. Students who fail to contribute to the faculty-led learning community will be removed from the focus.

Completion Requirements:

This Focus is part of the Cell and Molecular Biology Specialist and begins with the requirements of First Year and of lines 1-3 of Higher Years of the Cell and Molecular Biology Specialist Program.

4. 1.0 credit from: CSB340H1, CSB350H1/ CSB352H1, CSB353H1

5. 1.0 credit from: CSB435H1, CSB450H1, CSB451H1, CSB452H1, CSB454H1, CSB459H1, CSB460H1, CSB471H1, CSB472H1, CSB473H1, CSB474H1, CSB475H1

6. 2.5 credits from: BCH422H1, BCH426H1, BCH440H1, BCH444H1, BCH445H1, CSB299Y1, CSB328H1, CSB329H1, CSB330H1, CSB331H1, CSB340H1, CSB350H1, CSB351Y1, CSB352H1, CSB353H1, CSB397Y0, CSB399Y1, CSB428H1, CSB431H1, CSB435H1, CSB450H1, CSB451H1, CSB452H1, CSB454H1, CSB458H1, CSB459H1, CSB460H1, CSB471H1, CSB472H1, CSB473H1, CSB474H1, CSB475H1, CSB483H1, CSB490H1, CSB491H1, CSB492H1, CSB497H1, CSB498Y1, CSB499Y1, MGY441H1. No more than 0.5 credit in BCH can be used towards this requirement.

7. Plant Biotech Learning Community (each year of focus enrolment)

Cell & Molecular Biology Specialist: Focus in Stem Cells and Developmental Biology - ASSPE1003C

Starting in 2nd year, this focus organizes a restricted number of highly motivated Cell and Molecular Biology Specialist students with an interest in Stem Cells and Developmental Biology. Focus students are required to complete a subset of related program courses and to participate in a learning community for the focus.

Enrolment Requirements:

Once you have been approved for and have enrolled in the Cell and Molecular Biology Specialist program, you have the option to apply for entry into a focus. The focuses have a limited enrolment and can only accommodate a restricted number of students with a particular interest in the topic of the focus. **Students can only apply for one focus.** Admission will be determined with a minimum grade of 80% in BIO130H1. If the student does not achieve 80% in BIO130H1, admission can be determined with a minimum grade of 80% in BIO230H1, BIO255H1 or CSB349H1. On the application form, students must include a 300-word statement of interest regarding the topic of the focus. Statement submission instructions are in the Undergraduate program section of the CSB website, <http://csb.utoronto.ca>. Achieving these requirements does not necessarily guarantee admission to the focus in any given year.

Students in a focus complete the requirements of First Year, the requirements 1-3 of Higher Years, as well as requirements 4-7 specific to each focus.

Each year students are enrolled in a focus, they must also be an active participant in the faculty-led learning community for their focus (requirement 7). The learning community appears as a non-credit course recognized on the co-curricular record. Students who fail to contribute to the faculty-led learning community will be removed from the focus.

Completion Requirements:

This Focus is part of the Cell and Molecular Biology Specialist and begins with the requirements of First Year and of lines 1-3 of Higher Years of the Cell and Molecular Biology Specialist Program.

4. 1.0 credit from: CSB328H1, CSB329H1, CSB340H1

5. 1.0 credit from: CSB427H1, CSB429H1, CSB430H1, CSB431H1, CSB483H1

6. 2.5 credits from: BCH422H1, BCH426H1, BCH440H1, BCH441H1, BCH444H1, BCH445H1, CSB299Y1, CSB327H1, CSB328H1, CSB329H1, CSB330H1, CSB331H1, CSB340H1, CSB350H1, CSB352H1, CSB397Y0, CSB399Y1, CSB427H1, CSB428H1, CSB429H1, CSB430H1, CSB431H1, CSB435H1, CSB450H1, CSB453H1, CSB458H1, CSB460H1, CSB472H1, CSB473H1, CSB474H1, CSB483H1, CSB490H1, CSB491H1, CSB492H1, CSB497H1, CSB498Y1, CSB499Y1. No more than one 0.5 credit in BCH can be used towards this requirement.

7. Multicellularity Learning Community (each year of focus enrolment)

Animal Physiology Major (Science Program) - ASMAJ1538

Students learn to compare and contrast the physiological systems of different animal species, or of a single species under different environmental conditions. This experimental science strives to understand how physiological systems allow animals to adapt to their individual and ever-changing environments. Through a systems-level approach, from molecules to organisms, students gain an understanding of how emergent properties arise when physiological components operate as a whole.

After foundational courses in first and second year, students participate in advanced lecture, seminar and laboratory courses, and are encouraged to apply for research project courses in the laboratories of the Department. Course offerings include neurophysiology, respiratory physiology, endocrinology, sleep physiology and comparative cellular physiology.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Animal Physiology Major in the Summer after Year 2.

Completion Requirements:

(8.0 credits)

First Year:

1. BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1
2. 1.0 credit from JMB170Y1/ MAT135H1/ MAT136H1/ MAT137Y1/ MAT157Y1/ PHY131H1/ PHY132H1/ PHY151H1/ PHY152H1

Higher Years:

1. BIO220H1, BIO230H1/ BIO255H1
2. BIO270H1, BIO271H1
3. CSB325H1
4. 0.5 credit from: CJH332H1, CSB343H1, CSB346H1
5. 1.5 credits (at least 0.5 credit must be at the 300+ level) from: BCH210H1; BIO260H1/ HMB265H1; CJH332H1; CSB299Y1, CSB327H1, CSB328H1, CSB329H1, CSB330H1, CSB331H1, CSB343H1, CSB346H1, CSB348H1, CSB352H1, CSB397Y0; CSB399Y1; EEB263H1; PSY397H1; STA220H1
6. 0.5 credit at the 400-level from CSB426H1, CSB427H1, CSB430H1, CSB431H1, CSB432H1, CSB445H1, CSB447H1, CSB483H1, CSB492H1, CSB497H1, CSB498Y1, CSB499Y1; HMB430H1, HMB472H1, HMB496Y1, HMB499Y1; PSL432H1, PSL452H1

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\)](#) stream.

Cell & Molecular Biology Major (Science Program) - ASMAJ1003

Students learn how genes and proteins organize cells for cellular activities, multicellular development, and cellular interactions with the environment. Students also learn how cell and molecular biology research is conducted, and receive training in advanced techniques of the field. Cell and molecular biology research is one of the most demanding fields in science. Students gain an understanding of the field, and leave the program equipped to tackle fundamental scientific questions.

After foundational courses in first and second year, students participate in advanced lecture, seminar and laboratory courses, and are encouraged to apply for research project courses in the laboratories of the Department. Course offerings include gene expression, cell biology, developmental biology, plant development, plant-microbe interactions, plant signaling, neurogenesis, tissue morphogenesis, stem cell biology, genomics and proteomics.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Cell & Molecular Biology Major in the Summer after Year 2.

Completion Requirements:

(8.0 credits)

First Year:

1. BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1
2. 1.0 credit from JMB170Y1/ MAT135H1/ MAT136H1/ MAT137Y1/ MAT157Y1/ PHY131H1/ PHY132H1/ PHY151H1/ PHY152H1

Higher Years:

1. BIO220H1, BIO230H1/ BIO255H1
2. BIO260H1/ HMB265H1; BCH210H1
3. CSB349H1
4. 1.0 credit from: CSB327H1, CSB328H1, CSB329H1, CSB331H1, CSB340H1, CSB353H1
5. 1.5 credits (at least 0.5 credit at the 400-level) from: BCH422H1, BCH426H1, BCH440H1, BCH444H1, BCH445H1, CJH332H1, CSB299Y1, CSB327H1, CSB328H1, CSB329H1, CSB330H1, CSB331H1, CSB340H1, CSB350H1, CSB351Y1, CSB352H1, CSB353H1, CSB360H1, CSB397Y0, CSB399Y1, CSB427H1, CSB428H1, CSB429H1, CSB430H1, CSB431H1, CSB435H1, CSB447H1, CSB450H1, CSB451H1, CSB452H1, CSB453H1, CSB454H1, CSB457H1, CSB458H1, CSB459H1, CSB460H1, CSB471H1, CSB472H1, CSB473H1, CSB474H1, CSB475H1, CSB483H1, CSB490H1, CSB491H1, CSB492H1, CSB497H1, CSB498Y1, CSB499Y1, HMB496Y1/ HMB499Y1, MGY441H1, MGY480Y1. No more than 0.5 credit in BCH can be used towards this requirement.

The Cell & Molecular Biology Major Program has the additional option of a Disciplinary Focus.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Cell & Molecular Biology Major: Focus in Molecular Networks of the Cell - ASMAJ1003A

Starting in 2nd year, this focus organizes a restricted number of highly motivated Cell and Molecular Biology Major students with an interest in Molecular Networks of the Cell. Focus students are required to complete a subset of related program courses and to participate in a learning community for the focus.

Enrolment Requirements:

Once you have enrolled in the Cell and Molecular Biology Major program, you have the option to apply for entry into a focus. The focuses have a limited enrolment and can only accommodate a restricted number of students with a particular interest in the topic of the focus. **Students can only apply for one focus.** Admission will be determined with a minimum grade of 80% in BIO130H1. If the student does not achieve 80% in BIO130H1, admission can be determined with a minimum grade of 80% in BIO230H1, BIO255H1 or CSB349H1. On the application form, students must include a 300-word statement of interest regarding the topic of the focus. Statement submission instructions are in the Undergraduate program section of the CSB website, <http://csb.utoronto.ca>. Achieving these requirements does not necessarily guarantee admission to the focus in any given year.

Students in a focus complete the requirements of First Year, the requirements 1.-3. of Higher Years, as well as requirements 4.-7. specific to each focus.

Each year students are enrolled in a focus, they must also be an active participant in the faculty-led learning community for their focus (requirement 7.). The learning community appears as a non-credit course recognized on the co-curricular record. Students who fail to contribute to the faculty-led learning community will be removed from the focus.

Completion Requirements:

This Focus is part of the Cell and Molecular Biology Major and begins with the requirements of First Year and of lines 1-3 of Higher Years of the Cell and Molecular Biology Major Program.

4. 1.0 credit from: CJH332H1, CSB327H1, CSB331H1, CSB353H1
5. 0.5 credit from: CSB427H1, CSB428H1, CSB429H1, CSB435H1, CSB451H1, CSB454H1, CSB457H1, CSB458H1, CSB459H1, CSB460H1, CSB475H1
6. 1.0 credit from: BCH422H1, BCH426H1, BCH444H1, BCH445H1, CJH332H1, CSB299Y1, CSB327H1,

CSB330H1, CSB331H1, CSB353H1, CSB397Y0, CSB399Y1, CSB427H1, CSB428H1, CSB429H1, CSB435H1, CSB450H1, CSB451H1, CSB452H1, CSB454H1, CSB457H1, CSB458H1, CSB459H1, CSB460H1, CSB475H1, CSB490H1, CSB491H1, CSB497H1, CSB498Y1, CSB499Y1. No more than 0.5 credit in BCH can be used towards this requirement.
7. Molecular Network Learning Community (each year of focus enrolment)

Cell & Molecular Biology Major: Focus in Plant Genomics and Biotechnology - ASMAJ1003B

Starting in 2nd year, this focus organizes a restricted number of highly motivated Cell and Molecular Biology Major students with an interest in Plant Genomics and Biotechnology. Focus students are required to complete a subset of related program courses and to participate in a learning community for the focus.

Enrolment Requirements:

Once you have enrolled in the Cell and Molecular Biology Major program, you have the option to apply for entry into a focus. The focuses have a limited enrolment and can only accommodate a restricted number of students with a particular interest in the topic of the focus. **Students can only apply for one focus.** Admission will be determined with a minimum grade of 80% in BIO130H1. If the student does not achieve 80% in BIO130H1, admission can be determined with a minimum grade of 80% in BIO230H1, BIO255H1 or CSB349H1. On the application form, students must include a 300-word statement of interest regarding the topic of the focus. Statement submission instructions are in the Undergraduate program section of the CSB website, <http://csb.utoronto.ca>. Achieving these requirements does not necessarily guarantee admission to the focus in any given year.

Students in a focus complete the requirements of First Year, the requirements 1.-3. of Higher Years, as well as requirements 4.-7 specific to each focus.

Each year students are enrolled in a focus, they must also be an active participant in the faculty-led learning community for their focus (requirement 7.). The learning community appears as a non-credit course recognized on the co-curricular record. Students who fail to contribute to the faculty-led learning community will be removed from the focus.

Completion Requirements:

This Focus is part of the Cell and Molecular Biology Major and begins with the requirements of First Year and of lines

1-3 of Higher Years of the Cell and Molecular Biology Major Program.

4. 1.0 credit from: CSB340H1, CSB350H1/ CSB352H1, CSB353H1

5. 0.5 credit from: CSB435H1, CSB450H1, CSB451H1, CSB452H1, CSB454H1, CSB459H1, CSB460H1, CSB471H1, CSB472H1, CSB473H1, CSB474H1, CSB475H1

6. 1.0 credit from: CSB299Y1, CSB330H1, CSB340H1, CSB350H1, CSB351Y1, CSB352H1, CSB353H1, CSB397Y0, CSB399Y1, CSB435H1, CSB450H1, CSB451H1, CSB452H1, CSB454H1, CSB459H1, CSB460H1, CSB471H1, CSB472H1, CSB473H1, CSB474H1, CSB475H1, CSB490H1, CSB491H1, CSB497H1, CSB498Y1, CSB499Y1.

7. Plant Biotech Learning Community (each year of focus enrolment)

Cell & Molecular Biology Major: Focus in Stem Cells and Developmental Biology - ASMAJ1003C

Starting in 2nd year, this focus organizes a restricted number of highly motivated Cell and Molecular Biology Major students with an interest in Stem Cells and Developmental Biology. Focus students are required to complete a subset of related program courses and to participate in a learning community for the focus.

Enrolment Requirements:

Once you have enrolled in the Cell and Molecular Biology Major program, you have the option to apply for entry into a focus. The focuses have a limited enrolment and can only accommodate a restricted number of students with a particular interest in the topic of the focus. **Students can only apply for one focus.** Admission will be determined with a minimum grade of 80% in BIO130H1. If the student does not achieve 80% in BIO130H1, admission can be determined with a minimum grade of 80% in BIO230H1, BIO255H1 or CSB349H1. On the application form, students must include a 300-word statement of interest regarding the topic of the focus. Statement submission instructions are in the Undergraduate program section of the CSB website, <http://csb.utoronto.ca>. Achieving these requirements does not necessarily guarantee admission to the focus in any given year.

Students in a focus complete the requirements of First Year, the requirements 1-3 of Higher Years, as well as requirements 4-7 specific to each focus.

Each year students are enrolled in a focus, they must also be an active participant in the faculty-led learning community for their focus (requirement 7). The learning

community appears as a non-credit course recognized on the co-curricular record. Students who fail to contribute to the faculty-led learning community will be removed from the focus.

Completion Requirements:

This Focus is part of the Cell and Molecular Biology Major and begins with the requirements of First Year and of lines 1-3 of Higher Years of the Cell and Molecular Biology Major Program.

4. 1.0 credit from: [CSB328H1](#), [CSB329H1](#), [CSB340H1](#)
5. 0.5 credit from: [CSB427H1](#), [CSB429H1](#), [CSB430H1](#), [CSB431H1](#), [CSB483H1](#)
6. 1.0 credit from: [CSB299Y1](#), [CSB328H1](#), [CSB329H1](#), [CSB340H1](#), [CSB397Y0](#), [CSB399Y1](#), [CSB427H1](#), [CSB429H1](#), [CSB430H1](#), [CSB431H1](#), [CSB453H1](#), [CSB483H1](#), [CSB497H1](#), [CSB498Y1](#), [CSB499Y1](#).
7. Multicellularity Learning Community (each year of focus enrolment)

Genome Biology Major (Science Program) - ASMAJ2655

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the [Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Genome Biology Major in the Summer after Year 2.

Completion Requirements:

This program is a joint program of the departments of Cell & Systems Biology, Ecology & Evolutionary Biology, and

Cell and Systems Biology Courses

BIO130H1 - Molecular and Cell Biology

Hours: 36L/15P

Molecular Genetics. It is administered through the Department of Cell & Systems Biology.

(8.0 credits)

First year: [BIO120H1](#), [BIO130H1](#); ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#); ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)

Higher years:

1. [BIO220H1](#), [BIO230H1](#)/ [BIO255H1](#); [BIO260H1](#)/ [HMB265H1](#); [EEB225H1](#)/ [STA220H1](#)
2. Genomics fundamentals: [BCH311H1](#)/ [CSB349H1](#)/ [MGY311Y1](#), [CSB352H1](#); [EEB323H1](#)
3. 0.5 credit laboratory course from: [CSB472H1](#), [CSB474H1](#); [EEB460H1](#)
4. 1.0 credit genomics elective from: [CSB330H1](#), [CSB350H1](#), [CSB397Y0](#), [CSB427H1](#), [CSB435H1](#), [CSB450H1](#), [CSB457H1](#), [CSB458H1](#), [CSB471H1](#), [CSB473H1](#), [CSB490H1](#), [CSB491H1](#), [CSB497H1](#)/ [CSB498Y1](#)/ [CSB499Y1](#); [EEB362H1](#), [EEB455H1](#), [EEB458H1](#), [EEB459H1](#), [EEB462H1](#), [EEB463H1](#), [EEB397Y1](#)/ [EEB497H1](#)/ [EEB498Y1](#)/ [EEB499Y1](#); [EHJ352H1](#); [MGY350H1](#), [MGY360H1](#), [MGY428H1](#), [MGY470H1](#), [MGY480Y1](#)

NOTE: Students taking [CSB397Y0](#), [CSB490H1](#), [CSB491H1](#), [CSB497H1](#)/ [CSB498Y1](#)/ [CSB499Y1](#), [EEB397Y1](#)/ [EEB497H1](#)/ [EEB498Y1](#)/ [EEB499Y1](#) or [MGY480Y1](#) are encouraged to conduct a genomics-related research project.

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\)](#) stream.

Biology: see [Biology](#)
Genome Biology: see [Biology](#)

Lab Materials Fee

Some courses in this department have a mandatory Lab Materials Fee to cover non-reusable materials. The fee for each such course is given below in the course description, and will be included on the student's invoice on ACORN.

One of the goals of modern biology is to understand how the basic building blocks of life give rise to biological form and function. This course provides students with a common lexicon to understand the key principles and concepts in molecular and cell biology, with a focus on how the building blocks of life lead to functioning cells. (Lab Materials Fee: approximately \$11). Lab coat and safety glasses are required for use in laboratories;

students are responsible for purchasing these items (approximate cost is \$26).

Prerequisite: SBI4U and SCH4U (Grade 12 University Preparation Biology and Chemistry) or permission of department. Please contact bio130@utoronto.ca for more information.

Exclusion:
[BIOA01H3](#), [BIO152H5](#)

Breadth Requirements: Living Things and Their Environment (4)

CSB195H1 - Computational Biology Foundations

Hours: 24L/12T

Our understanding of life is built from observation, abstraction, modeling, and comparison. In this First Year Foundations course we explore how these activities are based on concepts of chance and choice, of organization and dispersion, of cooperation and conflict, and how these ideas inform domains such as statistics, computer science, bioinformatics, molecular biology, physiology and ecology. Through this, we build a broad framework of relationships and connections that will make students' engagement with specialized courses throughout the sciences all the more meaningful. This course's focus on best practices of structuring project work, using tools and resources, and documentation, will be valuable preparation for all subsequent courses. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

CSB196H1 - Genes, Genomes and Us

Hours: 24L

With the completion of the human genome sequence, we now have access to more information than ever before about our genetic make-up. This course addresses topics such as what are genes, how are they identified and how does knowledge about genes impact society. Students will learn basic concepts in genetics. Using this conceptual foundation, the significance of genomic research for understanding human biology, and the social consequences that may result from it, will be discussed. Evaluation is based on class discussions, homework, oral presentation and written assignments. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

CSB197H1 - Human Viruses

Hours: 24L

This course allows students to broaden their knowledge about the most important human viruses and prions. In essence, what viruses are, what they do, what are the diseases caused by viruses and how they are transmitted, etc., and what can be done about them (vaccines, antiviral treatments, etc.). Viruses cause many diseases ranging from a benign rash to severe hemorrhages and death. Each student will select a specific topic in Virology and write an essay and present a seminar for the rest of the class. Major "hot" problems in Virology from pandemics to controversial vaccines will also be discussed. Two tests covering all materials presented by all the students' seminars will be conducted. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

CSB198H1 - Cell and Molecular Biology in the News

Hours: 24L

The pace of knowledge creation in the fields of cell and molecular biology has greatly increased in the 21st century and with it, the need for greater scientific literacy. In this course, we will teach students to find reliable sources of information in order to understand the basic concepts underlying the research reported in these media releases, with the ultimate aim of critically evaluating these reports. Through exploration of various media articles in cell and molecular biology (with an emphasis on humans), students will be able to apply what they have learned to current events, as well as relevant issues in their lives and society as a whole. Students will be assessed through short-written assignments, class discussions, an oral presentation, and a final project where they will get the opportunity to explore the research behind a media article of their choice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

CSB199H1 - Biotechnology and Society

Hours: 24L

From the manipulation of genes of plants for improved food production through to human tissue engineering and stem cell research, biotechnology is increasingly playing a major role in our world. Society, however, is often challenged by the rapid advances in our knowledge in

these areas, and how to best apply these technologies in a manner that is socially responsible and economically viable. In this seminar course, students will research and describe various applications of biotechnology using information obtained from reputable sources, and lead discussions on the benefits and concerns that arise from this research. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

CSB201H1 - Molecular Biology, Biotechnology and You

Hours: 24L/12T

An online course intended to provide non-science students with an understanding of basic concepts in molecular biology and genetics, with particular emphasis on humans. Students will work online in groups on problem sets. The course will end with an introduction to biotechnology, including an opportunity for students to use their new knowledge to explore a real, multi-dimensional problem (e.g., cancer). Lectures will be delivered via the web and mandatory tutorials will require live webinar participation. The final exam will require attendance on the St. George campus. This course does not count towards CSB programs.

Exclusion: [BIO130H1](#), [BIO230H1](#), [BIO255H1](#)

Breadth Requirements: Living Things and Their Environment (4)

CSB202H1 - Further Exploration in Biotechnology

Hours: 24L/12T

Provides non-science students with an additional opportunity to explore biotechnology and its applications in agriculture, the environment, and human health including: genetically modified organisms, drug discovery and aging. Most lectures are viewed online before class and students work in groups during class on problem sets and case studies designed to stimulate further learning, enhance evidence-based reasoning, and promote reflection on the role of biotechnology in society. This course does not count towards CSB programs. [CSB201H1](#) is not a prerequisite for this course.

Exclusion: [BIO230H1](#), [BIO255H1](#)

Breadth Requirements: Living Things and Their Environment (4)

BIO230H1 - From Genes to Organisms

Hours: 36L/15P

The genome is the "book of life," providing instructions to construct an organism. This course introduces genome biology and explores how the building blocks of life are networked into functioning organisms. We will investigate how cells perceive internal and external cues, how gene expression is shaped by this perception, and how these events give rise to tissues, organs, and whole organisms. (Lab Materials Fee: approximately \$16). Lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these items (approximate cost is \$26).

Prerequisite: [BIO130H1](#), ([CHM135H1](#), [CHM136H1](#))/([CHM138H1](#), [CHM139H1](#))/ [CHM151Y1](#)

Exclusion: [BIO255H1](#)

Breadth Requirements: Living Things and Their Environment (4)

BIO255H1 - From Genes to Organisms with Advanced Laboratory

Hours: 36L/33P

The genome is the "book of life," providing instructions to construct an organism. This course introduces genome biology and explores how the building blocks of life are networked into functioning organisms. We will investigate how cells perceive internal and external cues, how gene expression is shaped by this perception, and how these events give rise to tissues, organs, and whole organisms. The Enhanced Laboratory provides the opportunity for greater laboratory skill development in modern investigative techniques and is intended for students interested in conducting their own laboratory research. (Lab Materials Fee: \$52). Lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these items (approximate cost is \$26).

Prerequisite: [BIO130H1](#), ([CHM135H1](#), [CHM136H1](#))/([CHM138H1](#), [CHM139H1](#))/ [CHM151Y1](#), cGPA 3.0

Exclusion: [BIO230H1](#)

Recommended Preparation: [BCH210H1](#) (taken concurrently or previously)

Breadth Requirements: Living Things and Their Environment (4)

BIO260H1 - Concepts in Genetics

Hours: 48L/12T

This is a problem based course which discusses classical, molecular, developmental, and population genetics and

genomics with emphasis on model organisms for genetic analysis.

Prerequisite: BIO230H1/ BIO255H1

Exclusion: HMB265H1

Breadth Requirements: Living Things and Their Environment (4)

BIO270H1 - Animal Physiology I

Hours: 24L/9P

Animal physiology is a biological sub-discipline that aims to understand, in physical and chemical terms, how animals work. This course uses examples from throughout the animal kingdom, in a comparative approach, to introduce and study homeostasis and the endocrine system. Accompanying laboratories reinforce concepts introduced in lectures and provide opportunities for students to experience firsthand the role that experimentation, data collection, interpretation of data, and communication of data plays in the nature of the scientific process. (Lab Materials Fee: approximately \$11). Lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these items (approximate cost is \$26).

Prerequisite: BIO130H1

Breadth Requirements: Living Things and Their Environment (4)

BIO271H1 - Animal Physiology II

Hours: 24L/9P

Animal physiology is a biological sub-discipline that aims to understand, in physical and chemical terms, how animals work. This course uses examples from throughout the animal kingdom in a comparative approach to introduce and study the nervous and cardiorespiratory systems. Accompanying laboratories reinforce concepts introduced in lectures and provide opportunities for students to experience firsthand the role that experimentation, data collection, interpretation of data, and communication of data plays in the nature of the scientific process. (Lab Materials Fee: approximately \$11). Lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these items (approximate cost is \$26).

Prerequisite: BIO270H1

Breadth Requirements: Living Things and Their Environment (4)

CSB299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

CSB325H1 - Endocrine Physiology

Hours: 24L/9T

The regulation of physiological processes by hormones and other signalling molecules in non-human chordates. An integrated genes-to-environment approach is used to examine aspects of hormonal evolution, physiological information flow, behaviour and neuroendocrinology, and xenobiotic endocrine disruptors. Students will have the opportunity to research areas of their own interest via group interaction in a series of tutorial sessions.

Prerequisite: BIO270H1, BIO271H1

Recommended Preparation: EEB266H1, EEB267H1

Breadth Requirements: Living Things and Their Environment (4)

CSB327H1 - Extracellular Matrix Dynamics and Associated Pathologies

Hours: 36L

Examines the expression, structure and function of the four major classes of ECM macromolecules: collagen, proteoglycans, non-collagenous structural proteins and glycoproteins. In addition to forming elaborate networks that give tissues and organs their unique architectural design and biomechanical properties, ECM molecules act as potent regulators of all cellular activities. Emphasis is placed on the morphoregulatory contribution(s) of ECM molecules to normal and pathological development.

Prerequisite: BIO230H1/ BIO255H1

Breadth Requirements: Living Things and Their Environment (4)

CSB328H1 - Animal Developmental Biology

Hours: 24L/24P

Basic concepts in developmental biology. Early development of invertebrates and vertebrates will be

discussed with emphasis on experimental and molecular analysis of developmental mechanisms. Tutorials focus on the experimental analysis of embryonic development and regeneration, and discuss primary literature of selected topics in developmental biology. (Lab Materials Fee: approximately \$26). A lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these (approximate cost is \$26).

Prerequisite: BIO230H1/ BIO255H1, BIO260H1/ HMB265H1

Breadth Requirements: Living Things and Their Environment (4)

CSB329H1 - Stem Cell Biology: Developmental Models and Cell-based Therapeutics

Hours: 24L/12T

Stem cells provide the basis for cellular diversity in multicellular organisms and have enormous therapeutic potential in regenerative medicine. The course will introduce students to the differences and similarities between stem cells from different organisms, their roles throughout development and therapeutic potential.

Prerequisite: BIO230H1

Recommended Preparation: BIO260H1/ HMB265H1

Breadth Requirements: Living Things and Their Environment (4)

BCB330Y1 - Special Project in Bioinformatics and Computational Biology

An opportunity for specialized individual research in bioinformatics and computational biology by arrangement with a supervisor. Approval of the application by the BCB coordinator is required. Not eligible for CR/NCR option.

Prerequisite: Permission of the course coordinator (application required). Significant background in both life science and computer science courses is required.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSB330H1 - Techniques in Molecular and Cell Biology

Hours: 8L/52P

Laboratory course on molecular and cell biology research techniques used to study genes and proteins. Topics

include plasmid cloning, PCR, bioinformatics, gene expression analyses, protein-protein interactions, and protein subcellular localization. (Lab Materials Fee: \$52). A lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these (approximate cost is \$26).

Prerequisite: BIO230H1/ BIO255H1, BIO260H1/ HMB265H1

Recommended Preparation: BCH311H1/ CSB349H1/ MGY311Y1 taken concurrently

Breadth Requirements: Living Things and Their Environment (4)

CSB331H1 - Advanced Cell Biology

Hours: 36L

The development of multicellular organisms is dependent on complex cell-cell and cell-matrix dynamics. The course examines the molecules and mechanisms involved and how they act in concert to regulate distinct developmental and physiological events. Emphasis is placed on the experimental approaches and technology used to study the molecular interactions and dynamics that alter structure-function relationships in cells and organisms.

Prerequisite: BIO230H1/ BIO255H1

Breadth Requirements: Living Things and Their Environment (4)

CJH332H1 - Cellular and Molecular Neurobiology of the Synapse

Previous Course Number: CSB332H1

Hours: 36L

Examination of all aspects of the synapse in both the peripheral and central nervous systems of invertebrates and vertebrates. Topics include: neuroplasticity, synapse formation, synaptic transmission, synaptic modulation, and the molecular biological basis of neurodegenerative disorders.

Prerequisite: BIO271H1/ PSL300H1

Exclusion: CSB332H1

Breadth Requirements: Living Things and Their Environment (4)

CSB340H1 - Plant Development

Hours: 24L

Plant developmental genetics at the molecular, cellular and organismal level, generation and use of genomic

resources in plant model organisms. Questions address the genetic dissection of plant embryo and meristem development, plant stem cell specification and tissue patterning. Genomic approaches applicable to plant biotechnology are also covered.

Prerequisite: BIO230H1/ BIO255H1, BIO260H1/(HMB265H1 with a minimum grade of 73%)

Breadth Requirements: Living Things and Their Environment (4)

CSB343H1 - Animal Energetics

Hours: 24L

Animal structure and function, at all levels from molecule to whole animal, are dependent on energy. This course describes how the supply, consumption, transformation, exchange and storage of energy can facilitate, constrain and limit animal function. Emphasis is placed on systems level physiological function and whole animal performance.

Prerequisite: (BIO270H1, BIO271H1)/(PSL300H1, PSL301H1)

Recommended Preparation: BCH210H1/ BCH242Y1

Breadth Requirements: Living Things and Their Environment (4)

CSB346H1 - Neurobiology of Respiration

Hours: 24L/12T

This course examines how the central and peripheral nervous system controls breathing in mammals. Topics include how the brain generates rhythmic breathing movements, how sleep impacts breathing control and how abnormal breathing contributes to disorders such as sleep apnea.

Prerequisite: (BIO270H1, BIO271H1)/(PSL300H1, PSL301H1)

Breadth Requirements: Living Things and Their Environment (4)

CSB348H1 - Laboratory in Comparative Animal Physiology

Hours: 48P

Laboratory exercises will include traditional and guided inquiry approaches to investigate and gain an understanding of the regulation of physiological systems in vertebrates and invertebrates. Students will experience

the nature of physiological investigation while being exposed to a range of the current experimental approaches animal physiologists use to design, test and evaluate hypotheses, and communicate their findings. This course will emphasize the fundamental characteristics humans share with all animal life and the physiological adaptations that have permitted species to exploit alternative environmental niches. This course requires participation and includes group work, written assignments, and oral presentations. (Lab Materials Fee: \$52). Lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these items (approximate cost is \$26).

Prerequisite: BIO230H1

Exclusion: PSL372H1

Recommended Preparation: BIO270H1, BIO271H1

Breadth Requirements: Living Things and Their Environment (4)

CSB349H1 - Eukaryotic Gene Expression

Hours: 30L/18T

Genome structure and the regulation of gene expression in eukaryotic cells. Topics include transcription, gene silencing and regulation, expression profiling, non-coding RNAs, and translational control. Tutorials emphasize problem based learning exercises that relate to recent advances in the broad field of eukaryotic gene expression.

Prerequisite: BIO230H1/ BIO255H1, BIO260H1/ HMB265H1

Exclusion: MGY311Y1, MGY420H1

Recommended Preparation: BCH210H1

Breadth Requirements: Living Things and Their Environment (4)

CSB350H1 - Laboratory in Molecular Plant Biology

Hours: 24L/36P

Laboratory methods used in plant molecular biology research. Topics include vector construction, plant transformations, PCR, DNA blots, high-throughput screens, genetic mapping, and bioinformatic analyses. (Lab Materials Fee: \$52). Lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these items (approximate cost is \$26).

Prerequisite: BIO230H1/ BIO255H1

Recommended Preparation: BIO251H1 or higher level plant biology course; BCH311H1/ CSB349H1/ MGY311Y1 concurrently

Breadth Requirements: Living Things and Their Environment (4)

CSB351Y1 - Introductory Virology

Hours: 48L/48T

An introduction to basic and medical virology. What you should know about viruses and the diseases they cause. Tutorials are optional.

Prerequisite: BIO230H1/ BIO255H1

Breadth Requirements: Living Things and Their Environment (4)

CSB352H1 - Bioinformatic Methods

Hours: 6L/18P

Use of available programs for analyzing biological data. This is an introductory course with a strong emphasis on hands-on methods. Some theory is introduced, but the main focus is on using extant bioinformatics tools to analyze data and generate biological hypotheses.

Prerequisite: BIO230H1/ BIO255H1, BIO260H1/ HMB265H1

Breadth Requirements: Living Things and Their Environment (4)

CSB353H1 - Plant-Microorganism Interactions and Plant Immunity

Hours: 24L

Plants have co-evolved with microbes ever since their first appearance on land, resulting in sophisticated strategies of pathogenicity, symbiosis, commensalisms and mutualism by microorganisms. This course presents an overview of the strategies by both plant hosts and microorganisms for their survival. The lecture content includes the basic concepts of plant-microbe interactions and plant immunity as well as signal transduction in plant immunity.

Prerequisite: BIO230H1/ BIO255H1

Recommended Preparation: BIO251H1

Breadth Requirements: Living Things and Their Environment (4)

CSB360H1 - Genetic Foundation of Molecular Biology

Hours: 24L

This course provides in depth foundational knowledge underlying molecular biology technologies. It focuses on how genetic principles were applied to develop the most commonly used molecular biology techniques today. Students will expand their genetic knowledge from introductory level genetic courses. This course does not involve explaining the basics of molecular biology such as replication, recombination, translation or gene expression. By contrast, this course expects that students already understand these concepts in detail and now apply this understanding towards how they were used to develop experimental technologies. For example, how are transformation, mutagenesis, plasmid construction, and gene expression systems used to design molecular experiments.

Prerequisite: BIO230H1/ BIO255H1, BIO260H1/ HMB265H1, CSB349H1

Exclusion: MGY340H1

Breadth Requirements: Living Things and Their Environment (4)

CSB397Y0 - Research Abroad in Cell & Systems Biology

An independent research project conducted in molecular biology, cell biology, developmental biology, neurobiology, physiology or systems biology. Whole organism, cell culture, in vitro or in silico studies are acceptable. The laboratory research is conducted by the student and supervised by a faculty member at an approved partner university. An information session is held each fall, and an application and interview process is required. The research is typically conducted from May to August. Not eligible for CR/NCR option.

Prerequisite: Minimum grade of 73% in BIO230H1/ BIO255H1/ BIO271H1 and permission of the CSB397Y0 coordinator

Breadth Requirements: Living Things and Their Environment (4)

CSB398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

CSB399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

BCB410H1 - Applied Bioinformatics

Hours: 24L

Practical introduction to concepts, standards and tools for the implementation of strategies in bioinformatics and computational biology. Student led discussions plus a strong component of hands-on exercises.

Prerequisite: BCH311H1/ CSB349H1/ MGY311Y1; (CSC324H1/ CSC373H1/ CSC375H1). Students who do not have the stated prerequisites are encouraged to contact the course coordinator.

Breadth Requirements: The Physical and Mathematical Universes (5)

BCB420H1 - Computational Systems Biology

Hours: 24L

Current approaches to using the computer for analyzing and modeling biology as integrated molecular systems. Lectures plus hands-on practical exercises. The course extends and complements an introductory Bioinformatics course.

Prerequisite: BCH441H1/ MGY441H1/ BCB410H1 and good working knowledge of R

Breadth Requirements: The Physical and Mathematical Universes (5)

CSB426H1 - Physiology of Stress and Reproduction

Hours: 12L/24S

Students will gain an integrated understanding of how organismal and cellular stress affects the process of reproduction. The focus will be primarily on chordates and will examine genetic, cellular, organismal, behavioural, and social levels of interaction.

Prerequisite: Minimum grade of 73% in CSB325H1

Breadth Requirements: Living Things and Their Environment (4)

CSB427H1 - Drosophila as a Model in Cancer Research

Hours: 12L/12T/12S

Use of the genetic model organism *Drosophila* in biomedical research with specific emphasis on cancer research. Students will read, discuss and present classical papers and current literature in the field to enhance their ability to critically evaluate the primary scientific literature.

Prerequisite: BIO260H1/ HMB265H1, two of CSB328H1/ CSB331H1/ CSB349H1/ MGY350H1

Breadth Requirements: Living Things and Their Environment (4)

CSB428H1 - Cytoskeletal Networks of the Cell

Hours: 12L/12T/12S

The cytoskeleton is a highly dynamic protein network that links all regions and components of the cell to provide a structural framework for organizing numerous cellular activities. This course will explore the molecular regulation of the actin and microtubule cytoskeletons during cell migration and other cellular processes. Topics will include (1) an overview of key regulators of the cytoskeleton, (2) how they organize specific cellular structures, and (3) how the coordinated activities of cytoskeletal networks govern complex cellular behaviours. The format of this course is mainly journal club style presentations and student-led discussions of research papers, together with supporting background lectures. Experience with critical evaluation of research papers is emphasized.

Prerequisite: Minimum grade of 73% in BCH311H1/ CSB349H1/ MGY311Y1, minimum grade of 73% in BCH340H1/ CJH332H1/ CSB328H1/ CSB329H1/ CSB331H1/ CSB340H1/ CSB397Y0

Breadth Requirements: Living Things and Their Environment (4)

CSB429H1 - Germ Cell Biology

Hours: 12L/12T/12S

This course will discuss the genetic and cell biological aspects of the development of gametes, gonads, and sex related traits in animals, including invertebrates and vertebrates. The course consists of lectures and student

seminars, and is based on the discussion of primary scientific literature. Not recommended for students with fewer than 14.0 credits.

Prerequisite: Minimum grade of 77% in [CSB328H1](#)/[CSB340H1](#)/[CSB349H1](#)/[MGY311Y1](#)/[MGY312H1](#)

Breadth Requirements: Living Things and Their Environment (4)

CSB430H1 - Neurogenesis

Hours: 24L/12T

An examination of the molecular and cellular basis of neurogenesis in development and adult nervous systems. Experimental evidence from recent studies in selected invertebrate and vertebrate model systems will be discussed. Topics include neural stem cells, regional specialization of neurogenesis, neuronal and glial differentiation, extrinsic regulation of neurogenesis, adult neurogenesis, and the evolution of neurogenesis. Students are expected to have a basic knowledge of molecular genetics, developmental biology and/or neuroanatomy. Lectures will be complemented by student directed seminars that focus on specialized research studies published in leading scientific journals.

Prerequisite: [BIO260H1](#)/[HMB265H1](#), [CSB328H1](#)/[CSB349H1](#)/[HMB200H1](#), [HMB320H1](#)

Breadth Requirements: Living Things and Their Environment (4)

BCB430Y1 - Advanced Special Project in Bioinformatics and Computational Biology

An opportunity for advanced specialized individual research in bioinformatics and computational biology by arrangement with a supervisor. Approval of the application by the BCB coordinator is required. [BCB330Y1](#) is a recommended preparation for this course however students should not normally conduct their project in the same laboratory or continue their previous project. Not eligible for CR/NCR option.

Prerequisite: Permission of the course coordinator (application required). Significant background in both life science and computer science courses is required.

Recommended Preparation: [BCB330Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CSB431H1 - Evolution and Development: Gastrulation

Hours: 12L/12T/12S

Gastrulation is used to examine the molecular and cellular mechanisms of a major morphogenetic process and its evolutionary modifications. This course includes small group discussions and presentations. Controversial issues presented in the lectures are debated.

Prerequisite: [CSB328H1](#)

Breadth Requirements: Living Things and Their Environment (4)

CSB432H1 - Advanced Topics in Cellular Neurophysiology

Hours: 12L/24S

This course examines cellular neurophysiological processes in the developing and mature nervous systems with a focus on: (1) understanding modern techniques used in neurophysiological research; and (2) interpreting the results from neurophysiological peer-reviewed manuscripts. This course is interactive and requires students to contribute actively during lectures and seminars, including conducting a group presentation.

Prerequisite: [CJH332H1](#)

Breadth Requirements: Living Things and Their Environment (4)

CSB434H1 - Introduction & Methods of Systems Neuroscience

Hours: 12L/12P/12S

Our brain is highly complex with billions of neurons; how do neurons work together to produce adaptive & flexible behaviors? Systems neuroscience studies this question at the systems level. Using various animal models, it aims to provide quantitative and causal links between neural circuits/networks and perception, behavior, and cognition. Through this course, you will learn about the popular animal models with simpler brains and interpret the neural mechanisms from multiple perspectives, to acquire a quantitative understanding. Particularly, this course will emphasize interdisciplinary technology, such as large-scale optical neural recording and computational tools. Knowledge gained will provide insights into understanding mental disorders and artificial intelligence.

Prerequisite: Minimum 75% in [MAT136H1](#), and minimum 75% in [BIO271H1](#)/[CJH332H1](#)/[PSL300H1](#)

Breadth Requirements: Living Things and Their Environment (4)

CSB435H1 - Regulatory Networks and Systems in Molecular Biology

Hours: 24L/12T

After a review of the basic mechanisms of gene regulation and signaling, this course will expose students to several technological and methodological tools for systematically dissecting regulatory networks and systems. Emphasis is on extracting global insight from genome-scale molecular biology datasets. Students will participate in class discussions of research papers, solve systems biology problems using the R statistical software and write an independent paper.

Prerequisite: BCH311H1/ CSB349H1/ MGY311Y1

Breadth Requirements: Living Things and Their Environment (4)

CSB445H1 - Sleep Biology in Health and Disease

Hours: 3L/33S

This course covers theories in why and how we sleep. It will focus on the biological functions of sleep, how the brain generates different sleep states and how a breakdown in sleep mechanisms contribute to sleep disorders like insomnia, sleep walking and narcolepsy. This course emphasizes student participation in seminar discussion and debates.

Prerequisite: ([BIO270H1](#), [BIO271H1](#))/([PSL300H1](#), [PSL301H1](#))

Recommended Preparation: [CJH332H1](#)/ [CSB345H1](#)/ [PSY397H1](#)

Breadth Requirements: Living Things and Their Environment (4)

CSB447H1 - Living Without Oxygen: Microbes to Mammals

Hours: 18L/18S

In-depth examination of the unique cellular adaptations of different organisms and tissues to survival in low oxygen environments. Cellular, physiological and biochemical strategies, and systemic and whole organism responses will be investigated to uncover broad-ranging common strategies employed by diverse organisms to live without oxygen and in other stressful environments.

Prerequisite: ([BIO270H1](#), [BIO271H1](#))/([PSL300H1](#), [PSL301H1](#))

Exclusion: [CSB347H1](#), [NUS348H0](#)

Recommended Preparation: [BCH210H1](#)

Breadth Requirements: Living Things and Their Environment (4)

CSB450H1 - Proteomics in Systems Biology

Hours: 24L

A discussion on current proteomic approaches to understand biological processes. The role of mass spectrometry, gel electrophoresis, protein-protein interaction and structural biology in understanding how proteins function in pathways and interaction networks will be discussed.

Prerequisite: [BIO230H1](#)/ [BIO255H1](#), [BCH210H1](#)

Breadth Requirements: Living Things and Their Environment (4)

CSB451H1 - Seminar in Plant Cell Biology

Hours: 6L/30S

Plants represent roughly 80% of the biomass on our planet and are essential primary producers in our ecosystems. At the cellular level, plants display some fascinating differences from other eukaryotic cells, including fragmentation of the secretory pathway, dramatic changes to cytoskeleton organization, and other adaptations to life as a pressurized cell. This course will examine and discuss examples from the primary scientific literature that highlight these distinct features of plant cells by contrasting them to animal cells. We will also discuss how these discoveries can contribute to addressing global challenges, such as developing innovative biomaterials, enhancing food security and cultivating renewable biofuels.

Prerequisite: [BIO230H1](#)/ [BIO255H1](#), [BIO260H1](#)/ [HMB265H1](#)

Recommended Preparation: [BCH311H1](#)/ [BIO251H1](#)/ [CSB330H1](#)/ [CSB340H1](#)/ [CSB349H1](#)/ [CSB350H1](#)/ [MGY311Y1](#)/ [MGY340H1](#)

Breadth Requirements: Living Things and Their Environment (4)

CSB452H1 - Molecular Interactions Between Plants and Microorganisms

Hours: 24L

This course explores the interactions between plants and both pathogenic and beneficial microorganisms at the molecular level. The course consists of two sections: 1. Plant-pathogenic microbe interactions and plant immunity and 2. Plant-beneficial microbe interactions and plant microbiome. The first section focuses on an in-depth discussion about on-going research of plant immunity against pathogenic microbes. The second section introduces the interaction of plant-beneficial microorganisms and their biotechnological usage for agriculture and food production.

Prerequisite: BCH311H1/ CSB349H1/ MGY311Y1

Recommended Preparation: CSB353H1

Breadth Requirements: Living Things and Their Environment (4)

CSB453H1 - Topics in Cell and Developmental Biology: Biology of Adherens Junctions

Hours: 12L/24S

Understanding how epithelial cells stick together to form tissues and organs, how they withstand mechanical forces, and how the loss of this adhesion leads to diseases such as cancer and its metastasis, are important fundamental questions in biology with significant implications for human health. Adherens junctions (AJs) are known to be dynamic plasma-membrane structures that mediate cell-cell adhesion and promote tissue integrity. In this course, we will discuss primary scientific literature to understand how AJs facilitate multicellular development and how they impact disease. Lectures will be complemented by student-led presentations of important research papers published in leading scientific journals.

Prerequisite: CSB331H1/ CSB328H1/ CSB349H1/ MGY311Y1/ BCH311H1, BIO230H1/ BIO255H1, BIO260H1/ HMB265H1

Recommended Preparation: BIO130H1, CSB331H1

Breadth Requirements: Living Things and Their Environment (4)

CSB454H1 - Pathogenic Effector Biology

Hours: 12L/12S

Microbial pathogens inject effector proteins into host cells in order to sabotage cellular systems and favor the infection process. This course explores the molecular details of how cellular systems (e.g., secretion, cytoskeleton and signaling) are manipulated by pathogenic effectors to promote the infection process, while emphasizing interesting structural and biochemical

features of effector biology along the way. The course will also compare and contrast the strategies employed by plant versus animal pathogens, and how immune systems have evolved to cope with cellular hijacking by pathogenic effector molecules. The course will be based on the primary research literature and involve a combination of lectures and critical discussions of research papers.

Prerequisite: BCH311H1/ CSB349H1/ MGY311Y1

Recommended Preparation: MGY377H1

Breadth Requirements: Living Things and Their Environment (4)

CSB457H1 - Post-transcriptional Gene Regulation

Hours: 12L/24S

This course focuses on advances in post-transcriptional gene regulation. Topics include regulatory RNAs, RNA processing, localization, translation, and degradation. In addition to lectures covering background material, emphasis is placed on current research and involves discussion of primary literature in a round-table format.

Prerequisite: Minimum grade of 70% in BCH311H1/ CSB349H1/ MGY311Y1

Breadth Requirements: Living Things and Their Environment (4)

CSB458H1 - Epigenetics

Hours: 36S

A seminar course exploring non-Mendelian phenomena in plants, fungi and animals that reveal aspects of genome organization and regulation that may provide insight into genome function and evolution.

Prerequisite: BIO260H1/ HMB265H1, BCH311H1/ CSB349H1/ MGY311Y1

Breadth Requirements: Living Things and Their Environment (4)

CSB459H1 - Plant Molecular Biology and Biotechnology

Hours: 24L

This course introduces students to major features of gene expression and signal transduction in plants. Topics include strategies for generating transgenic plants and regulating gene expression, as well as the importance of signal transduction in plant growth and survival. How plants sense and respond at the molecular level to

environmental stresses such as drought, salinity, cold and disease will be discussed. The application of this basic scientific information in biotechnological strategies for improving agronomic traits will also be addressed.

Prerequisite: BCH311H1/ CSB349H1/ MGY311Y1

Breadth Requirements: Living Things and Their Environment (4)

CSB460H1 - Plant Signal Transduction

Hours: 24L

Plant development, ecological adaptation and crop plant productivity depend on the sophisticated potential of plants to sense and compute signals to regulate their responses. An arsenal of genetic and genomic tools is employed to elucidate these plant signal transduction pathways. Examples from the original literature will be used to introduce general concepts of plant signal transduction, molecular biology and genomics and their application in understanding and influencing plant growth and development.

Prerequisite: BCH311H1/ CSB349H1/ MGY311Y1 or permission of instructor

Breadth Requirements: Living Things and Their Environment (4)

CSB471H1 - Foundational Discoveries in Genome Biology and Bioinformatics: AlphaFold2 and its implications

Hours: 24S

This course is based on the critical analysis of key research articles in genome biology and bioinformatics. The format is interactive and requires students to contribute actively during class meetings. Small student groups will be assigned to present context, figures, data, methods and impact from a number of research articles during the semester. Based on the readings, small student groups will propose new genome technologies or datasets and new bioinformatics software or databases.

Prerequisite: BCB330Y1/ (BCH441H1/ MGY441H1)/ CSB352H1/ CSB472H1/ EHJ352H1/ MGY428H1

Breadth Requirements: Living Things and Their Environment (4)

CSB472H1 - Computational Genomics and Bioinformatics

Hours: 24L/12T

Computational analyses of DNA and RNA expression data. Understanding biological databases, sequence alignment, sequence annotation, gene prediction, computational analysis of function, motif analysis, phylogenetic analysis, and gene expression profiling analysis. Applied, theoretical and statistical issues will be addressed.

Prerequisite: BIO230H1/ BIO255H1

Recommended Preparation: BIO260H1/ HMB265H1

Breadth Requirements: Living Things and Their Environment (4)

CSB473H1 - Chemical Genomics

Hours: 24L

This course surveys the field of Chemical Genomics, focusing on the analysis of biological problems using chemical approaches. Topics covered include chemical genetics, combinatorial chemistry and combinatorial strategies in molecular biology. Examines both the underlying biological and chemical concepts; however, the focus is primarily biological.

Prerequisite: BIO230H1/ BIO255H1, BIO260H1/ HMB265H1, CHM247H1/ CHM249H1/any 300+ CHM course

Recommended Preparation: BCH210H1

Breadth Requirements: Living Things and Their Environment (4)

CSB474H1 - Methods in Genomics and Proteomics

Hours: 48P

This is a hands-on, laboratory based course offered in conjunction with the Centre for the Analysis of Genome Evolution and Function (CAGEF). It will teach students how to produce and analyze data that are central to the fields of genomics and proteomics. Techniques taught include DNA and RNA extractions, PCR, Next Generation DNA library preparation and sequencing, expression profiling using RNAseq, protein extraction, 2D-gel electrophoresis and mass spectrometry. This will be combined with associated bioinformatics analyses. (Lab Materials Fee: \$52). A lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these (approximate cost is \$26).

Prerequisite: BIO260H1/ HMB265H1, BIO255H1/ CSB330H1/ CSB350H1 or by permission of the instructor

Recommended Preparation: BCH311H1/ CSB349H1/ MGY311Y1

Breadth Requirements: Living Things and Their Environment (4)

CSB475H1 - Plant Metabolomics

Hours: 24L

This course introduces students to major features of plant metabolism. The content covers plant physiology, natural product chemistry, genetics, molecular biology, and genomics. Topics also include strategies for designing how we modulate metabolic pathways and how we utilize plants for biotechnology through metabolic engineering.

Prerequisite: BCH311H1/ CSB349H1/ MGY311Y1

Breadth Requirements: Living Things and Their Environment (4)

CSB483H1 - Seminar in Development

Hours: 24S

Seminars analyzing major concepts in developmental biology from quantitative, physics-based and molecular perspectives.

Prerequisite: CSB328H1/ CSB340H1

Breadth Requirements: Living Things and Their Environment (4)

CSB490H1 - Team-Based Learning: Current Topics in Cell and Molecular Biology

Hours: 8L/16S

A team-based learning course with emphasis on questions in the fields of protein biochemistry, synthetic biology, and the evolution of proteins and networks of protein-protein interactions. Lectures and seminars will focus on current research topics within these fields and will provide the background knowledge for students to work in teams to explore the primary research literature, and for each team to develop a formal research proposal. For details on this year's content, please go to the Undergraduate course section of the CSB website, <http://csb.utoronto.ca>.

Prerequisite: BIO260H1/ HMB265H1, CSB330H1/ CSB349H1/ CSB352H1

Breadth Requirements: Living Things and Their Environment (4)

CSB491H1 - Team-Based Research: Research in Cell and Molecular Biology

Hours: 60P

CSB491H1 is a plant molecular biology lab that builds on molecular biology and biochemistry skills acquired in CSB350H1 or CSB330H1. After an initial training lab section, students will work in teams to develop a research project which they will conduct in the second half of the course. They will develop laboratory and teamwork skills that are desirable for them to function in a research laboratory and in the workplace. The course will integrate current molecular biology techniques, including designing and characterizing mutants made with CRISPR/Cas9. (Lab Materials Fee: \$52). Lab coat and safety glasses are required for use in laboratories; students are responsible for purchasing these items (approximate cost is \$26).

Prerequisite: CSB330H1/ CSB350H1 with a minimum grade of 77% and approval of the instructor

Breadth Requirements: Living Things and Their Environment (4)

CSB492H1 - Advanced Topics in Cell and Systems Biology

Hours: 24L

This advanced course covers topics in cell and systems biology at all levels of biological organization. Students learn about the wide array of state-of-the-art molecular, genomic, proteomic, cell biological, imaging, physiological and computational tools and methods that researchers use to study the behaviour of cells.

Prerequisite: CSB325H1/ CSB349H1

Breadth Requirements: Living Things and Their Environment (4)

CSB497H1 - Independent Research in Cell and Systems Biology I

An original research project (a literature review alone is not sufficient) requiring the prior consent of a member of the Department to supervise the project. The topic is to be mutually agreed upon by the student and supervisor. They must arrange the time, place, and provision of any materials and submit to the Undergraduate Office a signed form of agreement outlining details prior to being enrolled. In the Fall or Winter sessions, a commitment of 8-10 hours per week is expected for research and related course activities. If spread over both the Fall and Winter sessions, a commitment of 4-5 hours per week is expected. In the Summer Session, the number of hours doubles per week (e.g., 16-20 for F or S, or 8-10 for Y) as

the length of the term is halved compared to the Fall or Winter term. Many students spend more than this amount of time as they become immersed in their project. This course is normally open only to fourth year students with adequate background in Cell and Systems Biology. Course requirements include a final report, and either an oral presentation (Summer and Fall sessions) or a poster presentation (Winter session). Two workshops on scientific research are scheduled and highly recommended. Details for enrollment are available at the Undergraduate course section of the CSB website, <http://csb.utoronto.ca>. Maximum of 2.0 credits allowed among [CSB497H1](#), [CSB498Y1](#) and [CSB499Y1](#). (Lab Materials Fee: approximately \$26). Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

CSB498Y1 - Independent Research in Cell and Systems Biology I

An original research project (a literature review alone is not sufficient) requiring the prior consent of a member of the Department to supervise the project. The topic is to be mutually agreed upon by the student and supervisor. They must arrange the time, place, and provision of any materials and submit to the Undergraduate Office a signed form of agreement outlining details prior to being enrolled. In the Fall/Winter session, a commitment of 8-10 hours per week is expected for research and related course activities. In the Summer session, the number of hours doubles (16-20 per week) as the length of the term is halved. This course is normally open only to fourth year students with adequate background in Cell and Systems Biology. Course requirements include a final report and either an oral presentation (Summer session) or a poster presentation (Fall/Winter session). Four workshops on scientific research are scheduled and highly recommended. Details for enrollment are available at the Undergraduate course section of the CSB website, <http://csb.utoronto.ca>. Maximum of 2.0 credits allowed among [CSB497H1](#), [CSB498Y1](#) and [CSB499Y1](#). (Lab Materials Fee: \$52). Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

CSB499Y1 - Independent Research in Cell and Systems Biology II

Allows students to do a second independent project. Operates in the same manner as [CSB497H1](#)/ [CSB498Y1](#). Maximum of 2.0 credits allowed among [CSB497H1](#), [CSB498Y1](#) and [CSB499Y1](#). Students who have completed both [CSB497H1](#) and [CSB498Y1](#) are excluded

from taking [CSB499Y1](#). (Lab Materials Fee: \$52). Not eligible for CR/NCR option.

Prerequisite: [CSB497H1](#)/ [CSB498Y1](#)

Breadth Requirements: Living Things and Their Environment (4)

Chemistry

Faculty List

University Professors Emeriti

J.B. Jones, BSc, PhD, D Phil, FRSC, FCIC
J.C. Polanyi, MSc, PhD, D Sc, FRS, FRSC, FRSEd

Professors Emeriti

D.J. Donaldson, BSc, PhD (University of Toronto Scarborough)
M. Georges, PhD (University of Toronto Mississauga)
R.E. Kapral, BSc, PhD, FRSC
U.J. Krull, BSc, PhD, FCIC (University of Toronto Mississauga)
P.M. Macdonald, MSc, PhD (University of Toronto Mississauga)
R.A. McClelland, BSc, PhD, FRSC (University of Toronto Scarborough)
S. McLean, BSc, PhD, FCIC
M. Menzinger, Dip Eng, MSc, PhD (SM)
W.F. Reynolds, MSc, PhD
E.A. Robinson, BSc, PhD, D Sc (University of Toronto Mississauga)
I.W.J. Still, BSc, PhD, D Sc (University of Toronto Mississauga)
T.T. Tidwell, BSc, AM, PhD, FRSC (University of Toronto Scarborough)
J.P. Valteau, MA, PhD (I)
S.G. Whittington, MA, PhD (T)

Professor Emerita, Teaching Stream

J. C. Poë, ARCS, MSc, DIC, FCIC (University of Toronto Mississauga)

Associate Professors Emeriti

S.J. Fraser, BA, PhD (University of Toronto Scarborough)

Associate Professors Emeriti, Teaching Stream

C.S. Browning, MSc, PhD (SM) effective July 1, 2024
C.M. Kutas, BSc, MA, PhD

Senior Lecturers Emeriti

S. Skonieczny, D Sc, PhD
H. O. Ohorodnyk, MSc

Professor and Chair of the Department

M. Lautens, BSc, PhD, OC, FCIC, FRSC (T)

Associate Professor and Associate Chair (Graduate)

M.S. Taylor, BSc, PhD

Professor, Teaching Stream and Associate Chair (Undergraduate)

A.P. Dicks, BSc, PhD (SM)

University Professors

P.W. Brumer, BSc, PhD, FRSC
E. Kumacheva, MSc, PhD, FRSC
M. Lautens, BSc, PhD, OC, FCIC, FRSC (T)
R.J.D. Miller, BS, PhD, FRSC, FCIC
G.A. Ozin, BSc, D Phil, FRSC, FCIC
J.C. Polanyi, MSc, PhD, D Sc, FRS, FRSC, FRSEd
D.W. Stephan, BSc, PhD, FCIC, FRSC, FRSC(UK), FRS
M.A. Winnik, BA, PhD, FRSC, FCIC

Professors

J.P. Abbatt, BSc, PhD, FRSC
A. Aspuru-Guzik, BSc, PhD
J. Chin, MSc, PhD
M.C. Goh, BS, PhD (U)
P. Gunning, BSc, PhD (University of Toronto Mississauga)
A. Hargrove, BSc, PhD (University of Toronto Mississauga) effective July 1, 2024
A.F. Izmaylov, MSc, PhD (University of Toronto Scarborough)
R.H. Kluger, AM, PhD, FCIC, FRSC
H.B. Kraatz, PhD (University of Toronto Scarborough)
S.A. Mabury, BS, PhD (U), FRSC
R.H. Morris, BSc, PhD, FRSC, FCIC
J.G. Murphy, BSc, PhD
M. Nitz, BSc, PhD
R.S. Prosser, MSc, PhD (University of Toronto Mississauga)
J.M. Schofield, BA, PhD
D.S. Seferos, BSc, PhD
D. Segal, BSc, PhD
A.J. Simpson, BSc, PhD (University of Toronto Scarborough)
M.J. Simpson, BSc, PhD (University of Toronto Scarborough)
M.S. Taylor, BSc, PhD
M. Thompson, BSc, PhD, D Sc, FRSC, FCIC
A. von Lilienfeld, BSc, PhD
G. Walker, BA, PhD
F. Wania, BSc, PhD (University of Toronto Scarborough)
A. Wheeler, BSc, PhD
G.A. Woolley, BSc, PhD
A. Yudin, BS, PhD

Associate Professors

A. Beharry, PhD (University of Toronto Mississauga)
A. Dhirani, MSc, PhD

U. Fekl, MSc, PhD (University of Toronto Mississauga)
 R.A. Jockusch, BA, PhD
 V. Kanelis, BSc, PhD (University of Toronto Mississauga)
 K. Kerman, MSc, PhD (University of Toronto Scarborough)
 D.R. McMillen, MA Sc, PhD (University of Toronto Mississauga)
 H. Peng, BSc, PhD
 S. Rousseaux, BSc, PhD
 J.A. Shin, AB, PhD (University of Toronto Mississauga)
 D. Song, BSc, PhD
 M. Wilson, MSc, PhD
 X. Zhang, MSc, PhD (University of Toronto Scarborough)

Assistant Professors

H. Cui, BSc, PhD
 X. Li, BSc, PhD
 S. Rauscher, BSc, PhD (University of Toronto Mississauga)
 R. Sullan, BSc, PhD (University of Toronto Scarborough)
 H. Tran, PhD
 O. Voznyy, PhD (University of Toronto Scarborough)

Associate Professors, Teaching Stream

C.S. Browning, MSc, PhD (SM)
 S. Dalili, MSc, PhD (University of Toronto Scarborough)
 J. D'eon, BSc, PhD
 A. Hadzovic, PhD (University of Toronto Scarborough)
 L. Mikhaylichenko, MSc, PhD (University of Toronto Scarborough)
 B. Morra, BSc, PhD
 P.A.E. Piuino, MSc, PhD (University of Toronto Mississauga)
 K. Quinlan, BSc, PhD
 E. Sauer, B Sc, PhD (University of Toronto Scarborough)
 D.C. Stone, BSc, PhD

Assistant Professors, Teaching Stream

J. De Backere, BSc, PhD
 K. Kim, BSc, PhD (University of Toronto Scarborough)
 K. Luska, BSc, MSc, PhD
 J. Strautmanis, PhD (University of Toronto Mississauga)

molecules, and on using this understanding to interpret and predict the behaviour of matter. Many of the concepts of physics, and the methods of mathematics, are basic to chemistry. Chemistry is of fundamental importance to many other subjects including astrophysics, biological sciences, environmental science, geology, materials science, and medical sciences. These and other aspects of the subject are reflected in the undergraduate courses and programs offered by the Department.

The Department has made extensive changes to its course and program offerings in the last few years. These changes included a revision of first-year course delivery, modifications to later-year courses, and the refreshment of all six specialist programs in Chemistry, Biological Chemistry, Materials Science, Pharmaceutical Chemistry, Synthetic & Catalytic Chemistry, and Chemical Physics. In addition, a brand new Environmental Chemistry major has been launched. Students enrolled in any specialist or major program can select a Focus in Green Chemistry or a Focus in Practical Chemical Analysis as part of their undergraduate experience to highlight their acquired knowledge and skills to potential employers.

Students enrolled in any of the six specialist programs are eligible to participate in the Arts & Science Internship Program stream.

Students can choose between two first-year options according to their intended area of study.

1. CHM151Y1 is the course that is strongly recommended for students who plan to enrol in one of the specialist programs involving chemistry (including Biological Chemistry and Pharmaceutical Chemistry), or who plan to include a substantial amount of chemistry in their degree (such as those following a Chemistry major program. CHM151Y1 features a unique Course Community that significantly supports and enhances the student learning experience through informal sessions facilitated by upper-year undergraduate mentors.

2. The combination of CHM135H1 and CHM136H1 is recommended for students who intend to take programs in the Life or Health Sciences that do not require a large amount of chemistry.

The outlines of these first-year courses, together with those for later-year offerings, are shown in this Calendar. More detailed information is available from the Department and is posted at <https://www.chemistry.utoronto.ca/undergraduate/current-students/undergraduate-courses>.

Incoming first-year students may find more information about the first-year chemistry courses at <https://www.chemistry.utoronto.ca/current-students/first-year-students>. Some examples of common concepts from high school chemistry studies that you should be familiar with are listed at

Introduction

Chemistry is a rewarding intellectual pursuit and a dominant force in shaping our civilization. Chemistry places a strong emphasis on an understanding of the structures and properties of individual atoms and

<https://www.chemistry.utoronto.ca/prospective-students/self-assessment-test>.

Students who are following programs that contain a substantial number of chemistry courses are strongly advised to take courses in the proper year (i.e., 200-level in the second year, etc.). Following the correct sequence will enhance the level and balance of preparation for all later year courses, and timetable conflicts will be avoided. Students whose current programs may be affected by the introduction of new or revised chemistry courses are advised to consult the Department at the earliest possible opportunity.

Students requiring more information about Chemistry programs and courses are invited to visit the Undergraduate Office, Lash Miller Chemical Laboratories, Room 151, or to initiate contact via email (chem.undergrad@utoronto.ca).

Lab Materials Fee

Some courses in this department have a mandatory Lab Materials Fee to cover non-reusable materials. The fee for each such course is given below in the course description and will be included on the student's invoice on ACORN.

Regarding Materials Science Courses

Notes

1. The MSE courses listed in the programs below are administered by the Faculty of Applied Science and Engineering, and are subject to the rules and regulations of that Faculty, including those for term dates, examination periods and deferral practices.
2. The CHM courses listed for the Materials Science program are described in this section of the Calendar.
3. Enrollment in MSE courses is done through your own College Registrar. It is not necessary to petition as the courses listed below have been pre-approved for this Specialist Program.
4. Deferment of Final Exams is NOT generally granted in the Faculty of Applied Science and Engineering.

Chemistry Programs

Biological Chemistry Specialist (Science Program) - ASSPE1995

Consult Professor G. A. Woolley, Department of Chemistry.

Biological Chemistry examines Nature at the molecular level by using a combination of synthetic, inorganic, analytical and physical chemistry as well as the tools of molecular biology and biochemistry. This program provides the setting to understand the chemical reactions and interactions that occur in biological processes, as well as how chemical strategies can be used to control these systems. This program includes sufficient flexibility to allow focus in areas such as bioinorganic, bioorganic, biophysical or medicinal chemistry. Students graduating from this program will be prepared for career paths in the biotechnology, biomedical and pharmaceutical sectors, as well as for research and teaching in related areas of chemistry and biology. This program is accredited by the Canadian Society for Chemistry.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)
The following courses with the stated minimum grades are required:

• (CHM135H1, CHM136H1) (63% in each)/ CHM151Y1 (63%)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Biological Chemistry Specialist in the Summer after Year 2.

Completion Requirements:

(14.0 credits, including 3.0 credits from 400-level courses)

First Year: BIO120H1, BIO130H1; CHM151Y1 (strongly recommended)/ (CHM135H1, CHM136H1); (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

First or Second Year: (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Second and Higher Years:

1. BCH210H1; BIO230H1/ BIO255H1; CHM217H1, CHM220H1/ CHM222H1 (CHM220H1 recommended), (CHM236H1, CHM237H1)/ CHM238Y1, CHM249H1

2. CHM310H1, CHM347H1, CHM348H1, CHM379H1
3. At least 1.0 credit from the following: CHM317H1, CHM327H1, CHM338H1, CHM343H1, CHM395Y1/ CHM499Y1/ PHC489Y1, CHM410H1
4. CHM437H1, CHM447H1, CHM479H1
5. Additional 300/400-level BCH or CHM courses to a total of 14.0 credits. CSB450H1 is also acceptable.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Chemical Physics Specialist (Science Program) - ASSPE0600

Consult Professor J. Schofield, Department of Chemistry.

Chemical Physics aims to explain structure and dynamics of molecular and bulk systems in terms of atomic and molecular interactions. Sub-disciplines and specialized topics include reaction dynamics, spectroscopy, optical control of molecular processes, nanoscale science, surface chemistry, theoretical and experimental studies of soft systems (polymers, liquids, biological systems), quantum control and quantum information sciences. The Chemical Physics program will provide students with a solid grounding in physical chemistry, and will prepare students for careers in experimental and theoretical physical sciences, in academia or in research development for companies.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- (CHM135H1, CHM136H1) (63% in each)/ CHM151Y1 (63%)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Chemical Physics Specialist in the Summer after Year 2.

Completion Requirements:

(14.0 credits, including 1.5 credits from 400-level courses)

First Year:

1. (CHM151Y1 strongly recommended)/ (CHM135H1, CHM136H1)
2. (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1
3. (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Higher Years:

1. APM346H1, CHM222H1, CHM223H1, CHM326H1/ PHY356H1, CHM327H1, CHM328H1, MAT223H1/ MAT240H1, MAT235Y1/ MAT237Y1, MAT244H1, MAT334H1, PHY250H1, PHY254H1, PHY354H1, PHY350H1, CHM423H1/ PHY456H1
2. 2.0 credits from: CHM210H1, CHM217H1, (CHM236H1, CHM237H1)/ CHM238Y1, (CHM249H1 strongly recommended)/ CHM247H1, CHM310H1, CHM317H1, CHM338H1, CHM348H1, CHM415H1
3. Additional 400-level CHM/PHY 0.5 credit courses to a total of 14.0 credits. (Note: CHM395Y1 can be used toward this requirement).

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Chemistry Specialist (Science Program) - ASSPE1376

Consult Professor A. Dicks, Department of Chemistry.

The Chemistry Specialist Program provides broad coverage of the core areas of chemistry together with appropriate courses in mathematics and physics during the first three years and allows students to follow a particular area of interest or a more general program in the fourth year. The program is suitable for professional work in any area of chemistry and for entry into graduate school to continue work in any of the sub-fields of chemistry, provided that appropriate options are chosen in the fourth year. This program is accredited by the Canadian Society for Chemistry.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- (CHM135H1, CHM136H1) (63% in each)/ CHM151Y1 (63%)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Chemistry Specialist in the Summer after Year 2.

Completion Requirements:

(14.0 credits, including at least 3.0 credits from 400-level courses)

First Year:

1. (CHM151Y1 strongly recommended)/ (CHM135H1, CHM136H1)
2. (MAT135H1, MAT136H1)/ MAT137Y1/
MAT157Y1
3. (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Second Year:

1. CHM217H1, CHM220H1/ CHM222H1, CHM223H1, (CHM236H1, CHM237H1)/
CHM238Y1, CHM249H1
2. MAT235Y1/ MAT237Y1

Third and Fourth Years:

1. BCH210H1, CHM326H1/ CHM328H1, CHM327H1
2. Additional credits from 300/400-level CHM/ MAT/ another science, including at least three of CHM317H1, CHM338H1, CHM343H1, CHM379H1, CHM395Y1/ CHM499Y1/ PHC489Y1, CHM410H1. Minimum 3.0 CHM credits at the 400-level to a total of 14.0 credits.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Materials Science Specialist (Science Program) - ASSPE2424

Consult Professor Andrew Dicks, Department of Chemistry.

This program draws both on the basic sciences of chemistry and physics, and on the more applied areas such as metallurgy or ceramics. Courses dealing with these latter fields are offered through the Department of Materials Science in the Faculty of Applied Science and Engineering. This is an appropriate program for students with career interests in solid-state, polymer, or composite materials industries, or for graduate work in either chemistry or materials science, with an appropriate choice of options. Students may follow the Materials Chemistry path by taking the research course CHM499Y1 or the Materials Science and Engineering path by taking the research courses MSE492H1 and MSE493H1. This program is accredited by the Canadian Society for Chemistry.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- (CHM135H1, CHM136H1) (63% in each)/ CHM151Y1 (63%)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Materials Science Specialist in the Summer after Year 2.

Completion Requirements:

(14.0 credits, including 1.0 credit from 400-level courses)

First Year:

1. BIO120H1

2. CHM151Y1 (strongly recommended)/ (CHM135H1, CHM136H1)
3. (MAT135H1, MAT136H1)/ MAT137Y1/
MAT157Y1
4. MSE120H1

First or Second Year:

1. BIO130H1/ BIO220H1
2. (PHY131H1, PHY132H1)/ (PHY151H1,
PHY152H1)

Second Year and Higher Years:

1. CHM220H1/ CHM222H1/ MSE202H1*,
CHM223H1, (CHM236H1, CHM237H1)/
CHM238Y1, CHM247H1/ CHM249H1
2. MSE219H1, (MSE218H1/ MSE318H1),
MSE335H1
3. CHM327H1, CHM338H1, CHM343H1/
CHM348H1, CHM325H1/ CHM355H1,
CHM434H1/ CHM455H1, CHM426H1/
CHM457H1
4. At least 1.5 credits from the following, of which 0.5
credit must be at the 400-level: MSE302H1,
MSE316H1, MSE343H1, CHM446H1/
CHM456H1, CHM458H1, MSE415H1,
MSE419H1, MSE430H1, MSE431H1, (
MSE432H1/ MSE443H1), MSE440H1,
MSE458H1, MSE459H1, MSE461H1, MSE465H1
5. CHM499Y1/ (MSE492H1, MSE493H1)

*It is highly recommended that students in the Materials Science Specialist Program complete MSE202H1.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Pharmaceutical Chemistry Specialist (Science Program) - ASSPE1211

Consult Professor D. Dubins, Faculty of Pharmacy

The Pharmaceutical Chemistry Specialist Program combines knowledge of the biological, medical, and physical sciences in the study of the scientific aspects of drug therapy, with an emphasis placed on the chemical nature of the reactions and interactions involved in drug therapy. The program is offered jointly by the Department of Chemistry and the Leslie Dan Faculty of Pharmacy at the University of Toronto. Students in the Pharmaceutical Chemistry Specialist program will receive a solid background and training in physical, organic, and analytical chemistry, and will also learn the fundamental aspects of the synthesis, manufacture, use, and mode of action of drugs. This program provides excellent

preparation for future work in the pharmaceutical industry and is accredited by Canadian Society for Chemistry,

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO120H1 and BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- (PHY131H1 and PHY132H1)/ (PHY151H1 and PHY152H1)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60%, or a grade average lower than 70% will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Pharmaceutical Chemistry Specialist in the Summer after Year 2.

Completion Requirements:

(13.0 credits, including 1.0 credit from 400-level courses)

NOTE: Some of the courses listed below may have prerequisites.

First Year:

1. BIO120H1, BIO130H1
2. (CHM135H1 and CHM136H1)/ CHM151Y1
3. (PHY131H1 and PHY132H1)/ (PHY151H1 and PHY152H1)

Second Year:

1. BCH210H1
2. BIO230H1

3. CHM220H1/ CHM222H1, CHM223H1, (CHM249H1 strongly recommended/ CHM247H1)
4. PCL201H1
5. PHC230H1

Third Year:

1. CHM217H1
2. PHC300H1, PHC301H1, PHC320H1, PHC330H1, PHC340Y1

Fourth Year:

1. PHC489Y1/ CHM499Y1/ CHM395Y1
2. 2.0 credits from: CHM317H1, CHM342H1, CHM347H1, CHM379H1, CHM410H1, CHM414H1, CHM417H1, CHM427H1, CHM440H1, JPM300H1, JPM400Y1, PCL362H1, PCL386H1, PHC331H1, PHC401H1, PHC420H1, PHC421H1, PHC430H1, PHC431H1, PHC432H1, PHC435H1, PHC460H1, PHC462H1, PHC470H1, PSL300H1, PSL301H1

Note that not all of the 400-level PHC courses are offered every academic year.

Synthetic & Catalytic Chemistry Specialist (Science Program) - ASSPE1377

Consult Professor R. Batey, Department of Chemistry.

This program focuses on the fundamentals and practical aspects of modern synthetic organic and inorganic chemistry, and the understanding and applications of catalytic reactions. Students will become exposed to extensive green chemistry approaches from both experimental and theoretical perspectives. The program provides preparation for career paths as synthetic/discovery chemists, in the pharmaceutical, biotechnology, biomedical, crop protection, materials and related sectors, or for academic research and teaching positions. This program is accredited by the Canadian Society for Chemistry.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- (CHM135H1, CHM136H1) (63% in each)/ CHM151Y1 (63%)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Synthetic & Catalytic Chemistry Specialist in the Summer after Year 2.

Completion Requirements:

(14.0 credits)

First Year: (CHM151Y1 strongly recommended)/ (CHM135H1, CHM136H1); (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1; (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Second and Higher Years:

1. BCH210H1, CHM217H1, (CHM220H1/ CHM222H1, CHM223H1), (CHM236H1, CHM237H1)/ CHM238Y1, (CHM249H1 strongly recommended)/ CHM247H1; MAT235Y1/ MAT237Y1
2. CHM317H1, CHM338H1, CHM342H1, CHM343H1, CHM347H1, CHM348H1
3. CHM432H1, CHM440H1, CHM441H1, CHM443H1
4. CHM395Y1/ CHM499Y1/ PHC489Y1 and/or CHM397H0/ CHM398H0 in areas relevant to the program with prior approval by the Department
5. Additional 300/400-level courses from CHM, which may include courses from among CHM325H1, CHM355H1/ CHM328H1, CHM379H1, CHM416H1, CHM434H1/ CHM455H1, CHM437H1, CHM447H1 and CHM479H1 to a total of 14.0 credits.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Chemistry Major (Science Program) - ASMAJ1376

Consult Professor A. Dicks, Department of Chemistry.

The Chemistry Major Program provides exposure to the core areas of chemistry together with appropriate courses in mathematics during the first two years and allows students to follow a particular area or areas of interest during the third year and fourth year. The program is extremely flexible in its design in that students may focus their studies in the traditional sub-disciplines of inorganic, analytical, organic, or physical chemistry during the

second year, and then progress to take upper-year courses in these areas or in additional sub-disciplines including biological, materials and environmental chemistry. Students gain extensive laboratory experience throughout the program from whichever path they choose to take.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- (CHM135H1 and CHM136H1) (63% in each)/
CHM151Y1 (63%)

Completion Requirements:

(8.0 credits, including at least one 0.5 CHM credit at the 400-level)

First Year: (CHM151Y1 strongly recommended)/(CHM135H1 and CHM136H1); (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1

Second Year:

At least two of the following four options:

- CHM217H1
- CHM220H1/ CHM222H1
- (CHM236H1 and CHM237H1)/ CHM238Y1
- CHM249H1/ CHM247H1

Third Year: At least two of CHM317H1, CHM327H1, CHM338H1, CHM343H1, CHM348H1, CHM379H1

Fourth Year: Additional 200/300/400-level CHM courses to a total of 7.0 credits (CHM299H1, CHM299Y1, CHM396Y0, CHM397H0, CHM398H0, CHM398Y0, CHM399H1, CHM399Y1 excluded). Students may count either CHM395Y1 or CHM499Y1 towards Chemistry Major requirements.

Environmental Chemistry Major (Science Program) - ASMAJ2543

Consult Professor J. Murphy, Department of Chemistry

Environmental chemistry is the study of the chemical impacts of humankind's activities on the soil, air, and

water. This program focuses on the development of fundamental skills in instrumental and mechanistic chemical analysis that are required to understand the sources, fate, and impacts of both organic and inorganic contaminants in soil, air, water, and biological tissues. It involves a solid foundation in chemistry with specialized courses in environmental and analytical chemistry and contains flexibility for students to select additional courses in areas of study of most interest to them. Students may be interested in combining an Environmental Chemistry Major with other major programs such as Environmental Science, or programs in the life sciences offered by departments including Cell & Systems Biology and Ecology & Evolutionary Biology.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- (CHM135H1 and CHM136H1) (63% in each)/
CHM151Y1 (63%)

Completion Requirements:

(8.0 credits)

First Year:

1. (CHM135H1, CHM136H1)/ CHM151Y1
2. (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Second Year:

3. CHM210H1, CHM217H1
4. (CHM249H1 strongly recommended)/ CHM247H1
(CHM220H1/ CHM222H1 is strongly recommended.)

Third Year:

5. CHM310H1
6. At least 1.0 credit from: CHM317H1, CHM327H1, CHM338H1, CHM343H1, CHM348H1, CHM379H1

Fourth Year:

7. CHM410H1 and CHM415H1

8. Additional 200/300/400-level CHM courses to a total of 7.0 CHM credits (CHM299H1, CHM299Y1, CHM396Y0, CHM397H0, CHM398H0, CHM398Y0, CHM399H1, CHM399Y1 excluded)

Environmental Chemistry Minor (Science Program) - ASMIN2543

Consult Professor J. Murphy, Department of Chemistry

The Environmental Chemistry Minor program provides a balanced fundamental background in chemistry as well as an introduction to the major issues associated with environmental chemistry. This is achieved through a combination of introductory courses at the first and second-year levels, along with specific analytical and environmental chemistry courses in upper years.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300+ level)

1. (CHM135H1, CHM136H1)/ CHM151Y1
2. 1.0 credit from: CHM217H1, CHM220H1/CHM222H1, (CHM236H1, CHM237H1)/CHM238Y1, CHM247H1/CHM249H1
3. CHM210H1
4. CHM310H1, and 1.0 credit from: CHM317H1, CHM410H1, CHM415H1

Chemistry Minor (Science Program) - ASMIN1376

Consult Professor A. Dicks, Department of Chemistry.

The Chemistry Minor is an open-enrollment program that provides students with an opportunity to experience the different sub-disciplines in chemistry without the more significant commitment of enrolling in a specialist or major program. Students gain laboratory experience throughout the program in an area or areas of their choice (organic, inorganic, physical, biological, or analytical).

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Consult Associate Chair, Undergraduate Studies, Department of Chemistry.

(4.0 credits, including 1.0 credit CHM course at the 300+ level)

First Year:

- CHM151Y1/ (CHM135H1 and CHM136H1)

Second Year:

At least one of the following four options:

- CHM217H1
- CHM220H1/ CHM222H1/ CHM225Y1
- (CHM236H1 and CHM237H1)/ CHM238Y1
- CHM249H1/ CHM247H1

Third Year:

- At least one of CHM317H1, CHM327H1, CHM338H1, CHM343H1, CHM348H1, CHM379H1

Fourth Year:

- Additional 200/300/400-level CHM courses to a total of 4.0 credits (CHM299Y1, CHM395Y1, CHM396Y0, CHM397H0, CHM398H0, CHM398Y0, CHM399Y1 excluded)

Focus in Green Chemistry

Consult Professor A. Dicks, Department of Chemistry.

The Focus in Green Chemistry provides students with the opportunity to emphasize green chemistry as part of any chemistry specialist or major program they are enrolled in. An understanding of green chemistry principles is integral to meeting several of the United Nations Sustainable Development Goals (SDGs): <https://www.un.org/sustainabledevelopment/sustainable-development-goals>), particularly those centered around affordable energy, climate action, clean water and sanitation, responsible consumption and production, and good well-being. As such, green chemistry broadly concerns the design and redesign of products and processes to reduce their impact on human health and the environment. This focus will be attractive to students who wish to combine courses that cover principles of toxicology, reaction metrics, safer chemicals/solvents, pollution prevention/recycling, catalysis, and energy efficiency.

Enrolment Requirements:

Enrolment in one of the following programs is required:

- Chemistry Major (Focus ASFOC1376A)
- Chemistry Specialist (Focus ASFOC1376B)

- Biological Chemistry Specialist (Focus ASFOC1995A)
- Synthetic & Catalytic Chemistry Specialist (Focus ASFOC1377A)
- Pharmaceutical Chemistry Specialist (Focus ASFOC1211A)
- Chemical Physics Specialist (Focus ASFOC0600A)
- Materials Science Specialist (Focus ASFOC2424A)
- Environmental Chemistry Major (Focus ASFOC2543A)

Completion Requirements:

(2.5 credits)

1. (CHM135H1, CHM136H1)/ CHM151Y1
2. CHM249H1
3. CHM310H1, CHM343H1

Focus in Practical Chemical Analysis

Consult Professor D. Stone, Department of Chemistry.

The Focus in Practical Chemical Analysis provides students with the opportunity to emphasize chemical detection, identification, and measurement in a laboratory setting as part of any chemistry specialist or major program they are enrolled in. Having experience with and an understanding of methods for chemical analysis is of considerable value for both potential employers and students pursuing postgraduate research. Chemical analysis has wide application in fields as diverse as alternative energy and storage solutions; clinical medicine and research; drinking water quality and regulatory compliance; environmental monitoring and remediation;

Chemistry Courses

CHM101H1 - The Chemistry and Biology of Organic Molecules: Sex, Drugs and Rock and Roll!

Hours: 30L/6T

An introduction to chemistry and chemical principles for non-scientists, with a focus on the chemistry and biology of organic molecules. The myriad roles these compounds play in our lives are discussed, including their use of pheromones, medicines and weapons, and their effect on colour, taste and smell.

food quality and safety; pharmaceutical development, testing, and quality assurance; and product manufacturing and quality control.

Enrolment Requirements:

Enrolment in one of the following programs is required:

- Chemistry Specialist - ASSPE1376 (Focus Code: ASFOC1376D)
- Biological Chemistry Specialist - ASSPE1995 (Focus Code: ASFOC1995B)
- Pharmaceutical Chemistry Specialist - ASSPE1211 (Focus Code: ASFOC1211B)
- Materials Science Specialist - ASSPE2424 (Focus Code: ASFOC2424B)
- Synthetic & Catalytic Chemistry Specialist - ASSPE1377 (Focus Code: ASFOC1377B)
- Chemical Physics Specialist - ASSPE0600 (Focus Code: ASFOC0600B)
- Chemistry Major - ASMAJ1376 (Focus Code: ASFOC1376C)
- Environmental Chemistry Major - ASMAJ2543 (Focus Code: ASFOC2543C)

Completion Requirements:

Completion of the Focus in Practical Chemical Analysis requires the following 2.5 credits:

1. CHM217H1
2. CHM317H1 (students in ASSPE1211 may use PHC340Y1)
3. Additional courses to a total of 2.5 credits from: CHM338H1, CHM343H1, CHM379H1, CHM410H1, and CHM441H1. CHM395Y1 or CHM499Y1 may be used to fulfil this requirement with the permission of the department.

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM135H1 - Chemistry: Physical Principles

Hours: 36L/12T/18P

CHM135H1 and CHM136H1 cannot be taken in the same session.

Structure of matter, gases, liquids and solids; phase equilibria and phase diagrams; colligative properties; chemical equilibria; electrolyte solutions and electrochemistry; reaction kinetics; introduction to thermodynamics. Recommended for students in life and health science programs that involve a small amount of chemistry. (Lab Materials Fee: \$26).

Prerequisite: Chemistry SCH4U, Mathematics MHF4U + MCV4U

Corequisite: (MAT135H1, MAT136H1)/ MAT137Y1/
MAT157Y1 recommended but may be required for further Chemistry courses

Exclusion: CHM151Y1, CHMA11H3, CHM110H5

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM136H1 - Introductory Organic Chemistry I

Hours: 36L/12T/18P

CHM135H1 and CHM136H1 cannot be taken in the same session.

An introduction to principles of structure and their relation to reactivity of organic molecules: molecular structure, stereochemistry, functional groups, reactions, and mechanisms. Recommended for students in life and health science programs that involve a small amount of chemistry. (Lab Materials Fee: \$26).

Prerequisite: CHM135H1

Corequisite: (MAT135H1, MAT136H1)/ MAT137Y1/
MAT157Y1 recommended but may be required for further Chemistry courses

Exclusion: CHM151Y1, CHM242H5, CHMB41H3

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM151Y1 - Chemistry: The Molecular Science

Hours: 72L/24T/35P

An introduction to the major areas of modern chemistry, including organic and biological chemistry; inorganic/materials chemistry and spectroscopy; and physical chemistry/chemical physics. The course is highly recommended for students who plan to enrol in one of the chemistry specialist programs, or who will be including a substantial amount of chemistry in their degree (such as those following a chemistry major or minor program). The combination of CHM151Y1 and CHM249H1 serves as a full year introductory course in organic chemistry with laboratory. (Lab Materials Fee: \$39).

Note: CHM151Y1 has a unique Course Community where the undergraduate experience in chemistry is greatly enhanced through a series of workshops, research seminars, tours, outreach opportunities and social activities. 90-minute biweekly Course Community meetings are held during laboratory class hours during alternate weeks to the laboratory sessions. The lab time is

reserved for CHM151Y1 activities every week of each semester.

Prerequisite: Chemistry SCH4U, Mathematics MHF4U + MCV4U; Physics SPH4U recommended

Corequisite: (MAT135H1, MAT136H1)/ MAT137Y1/
MAT157Y1; (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1) recommended, but may be required for further Chemistry courses

Exclusion: CHM135H1, CHM136H1, CHMA10H3,
CHMA11H3, CHMB41H3, CHM110H5, CHM120H5

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM193H1 - Chemicals in the Environment: The Good, the Bad, and the Ugly

Previous Course Number: CHM211H1

Hours: 24S

The world is made up of chemicals: some are natural and some are invented and manufactured by humans. New chemicals are often intended to make our lives safer and easier (e.g., plastics, pesticides, personal care products) but may have unanticipated consequences once they are released into the world. In this seminar course, students will discover what properties of chemicals can lead to risks for the environment and for human health. Through discussion of how chemicals in the environment are understood by scientists, and described in popular media, students will develop improved scientific literacy to better evaluate risk in their own lives. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: CHM211H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM194H1 - Science and Human Values

Hours: 24S

There is a tension between creativity and the search for truth, which in science can be looking for patterns in nature. With examples drawn particularly from reports of scientific discoveries that have generated controversy, this seminar course will introduce the underlying principles and history of science, as well as how science and its boundaries are evolving, and how these influence human values. Restricted to first-year students. Not eligible for CR/NCR option.

Recommended Preparation: Minimum level of high school science and mathematics

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM196H1 - The Quantum World and Its Classical Limit

Hours: 24S

This course seeks to demystify quantum mechanics and equip students to critically analyze popular depictions of quantum phenomena. While quantum mechanics provides a reliable description of the behavior of atoms, molecules and photons, most people are uncomfortable with some of its predictions, such as "quantum entanglement" between distant particles. In this course we will delve into key aspects of quantum mechanics and its more comfortable classical limit, focusing first on its manifestations in nature and then on fundamental issues such as uncertainty, interference, entanglement, and decoherence. This course will appeal to students with enthusiasm for physics. Restricted to first-year students. Not eligible for CR/NCR option.

Recommended Preparation: High school physics and mathematics

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM197H1 - Environmental Chemistry in a Sustainable World

Hours: 24S

Rapid and widespread industrialization is changing the chemical nature of the planet. In order to have a sustainable future, we need to manage chemicals released by humankind and understand their effects on the environment and on us. Each year, this seminar course designed for non-science students will address the fundamental science behind a specific topic in this field, such as the interactions of our energy choices and the environment, or changes in water and air quality. Emphasis is given to reading from both the popular media and scientific literature. Restricted to first-year students. Not eligible for CR/NCR option.

Recommended Preparation: Grade 12 chemistry

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM198H1 - Biosensor Technology and Applications for the Non-Scientist

Hours: 24S

This breadth course introduces uses of and key ideas behind biosensor technology. Sensors will be familiar to

all, playing key roles in our everyday lives, for example in touch screens or in automotive technology. Biosensor devices are fabricated from an electrical transducer which is intimately connected to a biochemical probe such as an enzyme or antibody. The idea is that a detectable electrical signal can be obtained when a target molecule or ion binds to the probe. Such a device offers many applications. These range from the detection of biological markers in blood and serum to test for genetic and infectious disease, to the selective monitoring of biomolecules for public safety, or in biotechnology or other industrial processes. Restricted to first-year students. Not eligible for CR/NCR option.

Recommended Preparation: Reading of book chapter on biosensor technology

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM199H1 - The Context of Chemistry: Origins, Concepts, Tools, and Challenges

Hours: 24S

Chemistry is a practical as well as a conceptual science that serves as the basis for applications in many other fields. The ideas and methods have evolved from diverse inputs leading to widely accepted sets of standard of facts. This collective knowledge has led to progress in the quality and understanding of life at a molecular level. While the facts of chemistry are taught in established courses, the context of what we know, the limitations and challenges of what chemistry can do and how we got to this point will be the targets for discovery by students in this course. The course will operate in a seminar model, combining presentations, readings, reports and discussions of current and historical issues. Restricted to first-year students. Not eligible for CR/NCR option.

Recommended Preparation: Grade 12 level chemistry

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM209H1 - Science of the Modern Kitchen

Hours: 24L

The properties of different food types will be discussed, as well as how they can be manipulated in the kitchen to transform taste and texture. Concepts will be considered through the lens of the scientific method, and many of the ingredients and practices of modernist cuisine will be examined. This course is intended for students with no science background.

Exclusion: CHM135H1/ CHM136H1/ CHM138H1/ CHM139H1/ CHM151Y1

Recommended Preparation: SCH4U

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM210H1 - Chemistry of Environmental Change

Hours: 24L/12T

This course examines the fundamental chemical processes of the Earth's natural environment, and changes induced by human activity. Topics covered are related to the atmosphere and the hydrosphere: urban air pollution, stratospheric ozone depletion, acid rain, climate change, water resources and pollution, wastewater analysis, biogeochemistry, and inorganic metals in the environment. Skills in data analysis and visualization will be developed through an introduction to the R programming language and its use in several assignments.

Prerequisite: (CHM135H1/ CHM151Y1), (MAT135H1/ MAT137Y1/ MAT157Y1)

Exclusion: ENV235Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM217H1 - Introduction to Analytical Chemistry

Hours: 30L/6T/52P

Introduction to the science of chemical measurement, from sampling through analysis to the interpretation of results, including how water, food products, pharmaceuticals, and dietary supplements are analysed for content, quality, and potential contaminants. Also how to interpret experimental measurements, compare results and procedures, and calibrate analytical instrumentation. Through closely integrated classes, laboratories, and tutorials, this highly practical course introduces a variety of analytical techniques including volumetric methods, potentiometry, uv/visible and infrared spectrophotometry, flame atomic absorption spectrometry, and chromatography. Additional information can be found at <http://www.chem.utoronto.ca/coursenotes/CHM217/>. (Lab Materials Fee: \$39).

Prerequisite: (CHM135H1, CHM136H1/ CHM151Y1 with a minimum grade of 63%, (MAT135H1, MAT136H1/ MAT137Y1/ MAT157Y1)

Exclusion: CHM211H5, CHMB16H3

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM220H1 - Physical Chemistry for Life Sciences

Hours: 36L/12T

Introduction to thermodynamics; kinetics; phase equilibrium, properties of mixtures, chemical equilibrium, electrochemistry; introduction to quantum mechanics and spectroscopy. This course is recommended for students in life and health science programs that involve a small amount of chemistry.

Prerequisite: (CHM135H1, CHM136H1/ CHM151Y1; (MAT135H1, MAT136H1/ MAT137Y1/ MAT157Y1)

Corequisite: Recommended co-requisite: MAT235Y1/ MAT237Y1

Exclusion: CHM222H1, CHMB20H3, JCP221H5/ CHM221H5

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM222H1 - Introduction to Physical Chemistry

Hours: 24L/12T

Topics: introductory thermodynamics, first and second law and applications; chemical equilibrium. The course is intended for students who will be following the majority of chemistry specialist programs (Biological Chemistry specialist students are highly recommended to take CHM220H1).

Prerequisite: [(CHM135H1, CHM136H1/ CHM151Y1 with a minimum grade of 63%), (MAT135H1, MAT136H1/ MAT137Y1/ MAT157Y1), (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Corequisite: MAT235Y1/ MAT237Y1 recommended

Exclusion: CHM220H1, CHMB20H3, CHM221H5, JCP221H5

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM223H1 - Physical Chemistry: The Molecular Viewpoint

Previous Course Number: CHM221H1

Hours: 24L/12T

CHM223H1 introduces key concepts and mathematical approaches that underly fundamental quantum mechanical models of atoms and molecules. Connections are drawn between these microscopic models and macroscopic properties of systems in physical chemistry—both how experimental observations shape the chosen structure of the models, and how these

models can now successfully predict and interpret the results of experiments.

Prerequisite: CHM220H1 with a minimum grade of 63%/ CHM222H1

Corequisite: MAT235Y1/ MAT237Y1 recommended

Exclusion: CHMB21H3

Breadth Requirements: The Physical and Mathematical Universes (5)

PHC230H1 - Pharmaceutics 1

Hours: 36L/12T

This course introduces the key concepts in the design, manufacture, and use of efficacious dosage forms. The characteristics of different delivery routes are discussed. The course focuses on the role of pharmaceuticals in drug development, and the role of anatomy and physiology in the conception and design of effective dosage forms. Topics covered include biopharmaceutical considerations, pharmaceutical solutions, sterilization theories and techniques, complexation and solubility enhancement, pre-formulation, colloids and dispersions, powders and micromeritics, and solid-state properties. Students will gain an appreciation of how the properties of drug components (such as pH, salt concentration, co-solvents, sterility, colloids, dispersions, powders, and solids) determine the stability, solubility, and efficacy of drug products.

Prerequisite: (CHM135H1 and CHM136H1)/ CHM151Y1; CHM220H1/ CHM222H1

Exclusion: PHM141H1

Breadth Requirements: Living Things and Their Environment (4)

CHM236H1 - Introductory Inorganic Chemistry I

Hours: 24L/12T

Inorganic chemistry is the chemistry of all the periodic table elements and includes the synthesis of the largest volume chemicals on Earth, the key energy-generating reactions and catalysts needed for a green planet, and compounds exploited in modern electronic and photonic devices. This is the first part (followed by CHM237H1 and then CHM338H1) of a two-year sequence illustrating the rich variety of structures, physical properties, and reactions of compounds of the elements across and down the periodic table. It includes fundamentals of bonding, symmetry, and acid-base/ redox reactions of molecular compounds and transition metal complexes and applications of this chemistry in the world. CHM236H1 is recommended for students interested in broadly learning about chemistry across the periodic table.

Prerequisite: CHM151Y1/(CHM135H1, CHM136H1) with a minimum grade of 63%

Exclusion: CHM231H5, CHM238Y1, CHMB31H3

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM237H1 - Introductory Inorganic Chemistry II

Hours: 24L/6T/48P

This course is a continuation from CHM236H1 which further studies the chemistry of the elements across the periodic table. It will cover topics that include the periodic properties of the elements, the structures, bonding and properties of main group compounds and transition metal complexes, inorganic solid-state materials, and solid-state chemistry with applications in advanced technologies. A strong emphasis on developing laboratory techniques and communication skills is made through the practical component of the course. CHM236H1 is strongly recommended for students exploring experimental synthetic chemistry as part of their degree program. (Lab Materials Fee: \$39)

Prerequisite: CHM236H1 with a minimum grade of 63%

Exclusion: CHM231H5, CHM238Y1, CHMB31H3

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM247H1 - Introductory Organic Chemistry II

Hours: 36L/12T/22P

Reactions of organic compounds. Principles of mechanism, synthesis, and spectroscopy, continuing from CHM136H1. This course is recommended for students in life and health science programs that involve a small amount of chemistry. Students who will be including a substantial amount of chemistry in their degree (including those following a chemistry major program) are strongly encouraged to take CHM249H1. (Lab Materials Fee: \$26).

Prerequisite: (CHM135H1, CHM136H1)/ CHM151Y1

Exclusion: CHM249H1, CHM243H5, CHMB42H3

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM249H1 - Organic Chemistry

Hours: 36L/52P

An introductory course in organic chemistry, based around the themes of structure, bonding, reaction mechanism,

and synthesis. Reactions are discussed with a view to understanding mechanisms and how they are useful in the multi-step synthesis of medicinally and industrially important compounds. An introduction to the spectroscopy of organic molecules is also given, as well as a discussion of topics relating to the biological behaviour of organic molecules and medicinal chemistry. Students are also introduced to green chemistry approaches from an experimental perspective. This course continues from CHM151Y1 or CHM136H1 and is designed for students enrolled in any chemistry specialist or major program. (Lab Materials Fee: \$39).

Prerequisite: CHM151Y1/ (CHM135H1, CHM136H1)
with a minimum grade of 63%

Exclusion: CHM247H1, CHM243H5, CHMB42H3

Breadth Requirements: The Physical and Mathematical Universes (5)

JCC250H1 - Computing for Science

Previous Course Number: CSC198H1

Hours: 24L/24T

Computational skills for the modern practice of basic and applied science. Applied computer programming with an emphasis on practical examples related to the simulation of matter, drawing from scientific disciplines including chemistry, biology, materials science, and physics. Studio format with a mixture of lecture, guided programming, and open scientific problem solving. Students will be exposed to Python numerical and data analysis libraries. No prior programming experience is required.

Prerequisite: CHM135H1/ CHM136H1/ CHM151Y1, 0.5 credit in MAT (excluding FYF courses)

Exclusion: Any CSC course except CSC104H1, CSC196H1, CSC197H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM295H1 - Research Experience in Chemistry

Hours: 12L/48P

A course-based undergraduate research experience (CURE) that will introduce students to experimental research in chemistry from a physical science perspective, involving measurement, use of scientific instruments, and data analysis. Students will collaborate in teams to acquire research skills by carrying out laboratory work on a specific project that is defined by various chemistry departmental research groups. The topics will cover a range of research areas; however the approach will include aspects of physical chemistry such as spectroscopy, thermodynamics, nanotechnology,

properties of materials, and reaction kinetics. Training in the use of instruments and data acquisition and analysis will be provided.

Prerequisite: (CHM135H1, CHM136H1)/ CHM151Y1, (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1, (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Corequisite: CHM220H1/ CHM222H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM299H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

CHM299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PHC300H1 - Molecular Pharmacology 1

Hours: 24L/12T

Structural and mechanistic determinants of drug action at the molecular level. Topics include the physical-chemical properties of drugs per se as they relate to therapeutic intervention and the biophysical and biochemical properties of enzymes and nucleic acids that underlie and are affected by their interactions with drugs.

Prerequisite: (CHM135H1, CHM136H1)/ CHM151Y1; CHM220H1/ CHM222H1

Exclusion: PCL302H1

Breadth Requirements: Living Things and Their Environment (4)

JSC301H1 - Principles and Practices in Science Education

Hours: 24L

Fundamental principles and practices in education and public outreach in the sciences, mathematics, and engineering, including education research, curriculum, teaching, and assessment. Students will learn and apply effective strategies which engage and educate learners at the K-16 and public level. The course assignments include a project and/or placement experience.

Prerequisite: At least 8.0 credits, and enrolment in a science, mathematics, or engineering program

Breadth Requirements: Society and its Institutions (3)

PHC301H1 - Molecular Pharmacology 2

Hours: 36L/12T

Structural and mechanistic determinants of drug action via macromolecules that effect cellular signalling. Neurohumoral receptors and other signalling proteins are grouped according to their structure and mechanism of action. Native properties and their modulation by drugs are discussed in the context of basic principles of molecular pharmacology.

Prerequisite: (CHM135H1, CHM136H1)/ CHM151Y1; CHM220H1/ CHM222H1; BCH210H1

Exclusion: PCL302H1, PHM140H1

Breadth Requirements: Living Things and Their Environment (4)

CHM310H1 - Environmental Fate and Toxicity of Organic Contaminants

Hours: 24L/12T

Organic chemical contaminants surround us in our everyday lives (e.g. in medications, personal care products, flame retardants, refrigerants) and because of this, they are present in the environment and in ourselves. In this course we will explore the fate of chemicals in the environment as a whole, as well as in the body, to understand how chemicals can be designed to mitigate the risks associated with their use and unintended release. Specific topics will include environmental partitioning; environmentally-relevant transformation processes; the chemistry and effects of redox-active species; and the toxicity/detoxification of electrophilic species in the body. Skills in big data analysis and environmental modeling will be developed through an introduction to the R programming language at the beginner level.

Prerequisite: (CHM135H1, CHM136H1)/ CHM151Y1, (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Recommended Preparation: CHM247H1/ CHM249H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM317H1 - Introduction to Instrumental Methods of Analysis

Hours: 24L/52P

Scope of instrumental analytical chemistry; Fourier transform IR absorption spectroscopy; molecular luminescence; emission spectroscopy; mass spectrometry; sensors; gas and high performance liquid chromatography; instrument design principles and applications in industry and the environment. (Lab Materials Fee: \$39).

Prerequisite: CHM217H1 with a minimum grade of 63%; (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Exclusion: CHM391H5, CHMC11H3, CHMC16H3

Recommended Preparation: CHM220H1/ CHM222H1, CHM223H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHC320H1 - Chemistry and Technologies in Drug Discovery

Hours: 36L

This course provides interdisciplinary learning related to the chemistry of drugs and technologies of drug discovery as they are related to small molecules and biologics, their mechanisms of action, and the latest trends in the field of pharmaceuticals. Various important concepts such as structure-activity relationships, drug-like properties, computer modelling, combinatorial chemistry, small molecule drugs, biologics and related aspects in relation to new drugs will be covered. Novel concepts such as artificial intelligence in drug discovery will be introduced. After completing this course, students may practice entry-level medicinal chemistry with sound synthetic chemistry acquired from other chemistry courses, or take advanced courses in medicinal chemistry, drug discovery, and specialized courses in drug development. Students will also have a deeper understanding of drug discovery and development.

Prerequisite: BCH210H1, CHM247H1/ CHM249H1

Breadth Requirements: Living Things and Their Environment (4)

CHM326H1 - Introductory Quantum Mechanics and Spectroscopy

Hours: 24L/12T

This course introduces the postulates of quantum mechanics to develop the fundamental framework of quantum theory. A number of exactly soluble problems are treated in detail as examples. Perturbation theory is introduced in the context of understanding many body problems. Various applications to chemical bonding and molecular spectroscopy are covered in detail.

Prerequisite: ([CHM220H1](#)/ [CHM222H1](#), [CHM223H1](#)), [MAT235Y1](#)/ [MAT237Y1](#)

Exclusion: [JCP321H5](#), [PHY356H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM327H1 - Experimental Physical Chemistry

Hours: 12L/52P

Students are introduced to physical chemistry laboratory work in a project-based approach in which they develop, design, and implement projects that address fundamental and applied questions in physical chemistry. The course also involves class material related to working as an experimental physical chemist. (Lab materials fee: \$39).

Prerequisite: ([CHM220H1](#)/ [CHM222H1](#)/ [MSE202H1](#), [CHM223H1](#)) with a minimum grade of 63% in each

Corequisite: Recommended: [CHM326H1](#) or [CHM328H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM328H1 - Modern Physical Chemistry

Hours: 24L/12T

This course explores the microscopic description of macroscopic phenomena in chemistry. Statistical mechanics is introduced as the bridge between the microscopic and macroscopic views, and applied to a variety of chemical problems including reaction dynamics. More advanced topics in thermodynamics are introduced and discussed as required.

Prerequisite: ([CHM220H1](#)/ [CHM222H1](#), [CHM223H1](#)), [MAT235Y1](#)/ [MAT237Y1](#)

Exclusion: [JCP322H5](#), [CHMC20H3](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHC330H1 - Pharmaceutics 2

Hours: 36L/12T

This course provides an understanding of advanced topics in pharmaceutics. It involves a detailed examination of the material properties of pharmaceuticals and the role of cellular processes in the delivery of a drug to its site of action. Selected topics include thermodynamic characterization of drug solubility, diffusion measurement and its use in pharmaceutics, liposomal drug delivery, excipient consideration and selection for liquid dosage forms, polymeric materials in pharmaceutical applications, rheology and its applicability to liquid drug vehicles, bioequivalence determination of dermatological dosage forms, and an introduction on the impact of physiochemical properties on dermatological dosage forms.

Prerequisite: ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#); [CHM220H1](#)/ [CHM222H1](#)

Breadth Requirements: Living Things and Their Environment (4)

PHC331H1 - Establishing the Bioequivalence of Pharmaceutical Products

Hours: 48L

This course will introduce the practical and regulatory design elements and consideration of human clinical trials for the purposes of demonstrating bioequivalence between drug products. The principles discussed are currently used by generic and innovator drug companies in many countries. Students will learn about the regulations, methods, techniques, pharmacokinetics, and biostatistics involved in creating bioequivalence studies. The course has a heavy mathematical emphasis, with a large component dedicated to mathematical modeling (non-compartmental and compartmental pharmacokinetic modeling, and biostatistics). Also discussed are clinical trial sample size determination, bioequivalence study design elements, clinical study protocol and final report writing, disaster recovery and outlier analysis, and design of steady-state studies. A module is also included on developing and improving interview skills. After taking this course, students will understand the steps required to set up single-dose and steady-state pilot and pivotal bioequivalence trials using parallel, crossover, and semi-replicate designs, and be well-poised for entry-level scientific positions in industry.

Prerequisite: [BCH210H1](#), [CHM247H1](#)/ [CHM249H1](#), ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#), [PHC230H1](#), [PHC330H1](#)

Breadth Requirements: Living Things and Their Environment (4)

CHM338H1 - Intermediate Inorganic Chemistry

Hours: 24L/52P

Further study of the structures, physical properties, and reactions of transition metals. Introductions to spectroscopy, structural analysis, reaction mechanisms, d-block organometallic compounds, applications of metal, and main group compounds in catalysis. The weekly laboratory explores advanced synthetic and spectroscopic techniques including air- and moisture-sensitive chemistry and multinuclear NMR spectroscopy, with a strong emphasis on developing scientific communication skills. (Lab Materials Fee: \$39).

Prerequisite: CHM236H1 + CHM237H1 with a minimum grade of 63% in each course.

Exclusion: CHM331H5

Recommended Preparation: CHM217H1, CHM247H1/CHM249H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHC340Y1 - Pharmaceutical Chemistry Laboratory

Hours: 24L/96P

This course will introduce students to theoretical and applied concepts in pharmaceutical chemistry, in research, development, and manufacturing contexts. The course is designed with lectures and laboratories covering major areas in pharmaceutical chemistry, which have been carefully scheduled together to link concepts discussed during lectures to practical hands-on activities. The course covers selected topics pertinent to drug development such as acid/base equilibria, buffer preparation, drug solubility, drug polymorphs and salt selection, pKa, and co-solvency. The course also examines characterizing properties of common liquid, semi-solid and solid drug vehicles, such as viscosity, degradation kinetics/stability, diffusivity, tonicity, particle size distribution, and powder flowability. Emphasis is placed on the process of drug manufacture. Laboratory equipment used is commonly found in formulation labs, pharmacies, pharmaceutical research laboratories, and pharmaceutical manufacturing facilities. A lecture module on ethics and academic integrity will discuss cutting-edge applications of ethics in research, and issues arising when complex scientific solutions are proposed to regulatory bodies and to the public eye.

Prerequisite: CHM247H1/CHM249H1; (CHM220H1/CHM222H1), CHM223H1; BCH210H1

Breadth Requirements: Living Things and Their Environment (4)

CHM342H1 - Modern Organic Synthesis

Hours: 24L/12T

An overview of the preparation of various classes of organic compounds. Strategies and tactics of synthetic organic chemistry using examples from natural products and pharmaceuticals. C-C bond formation, functional group reactivity, structure, stereochemistry and selectivity.

Prerequisite: CHM247H1/CHM249H1

Exclusion: CHM345H5

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM343H1 - Organic Synthesis Techniques

Hours: 24L/52P

This laboratory course showcases modern organic synthesis techniques and introduces chemical research principles. It provides excellent preparation for a CHM499Y1 project in organic chemistry. Associated classes teach theory and problem-solving approaches from a practical perspective and through industrial case studies. Green chemistry decision-making is a central theme of both the class and laboratory components. (Lab Materials Fee: \$39).

Prerequisite: CHM247H1/CHM249H1 with a minimum grade of 63%

Exclusion: CHM393H5

Recommended Preparation: CHM342H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM347H1 - Organic Chemistry of Biological Compounds

Hours: 24L/12T

An organic chemical approach to the structure and reactions of major classes of biological molecules: carbohydrates, amino acids, peptides and proteins, phosphates, lipids, heterocycles, vitamins, nucleotides, and polynucleotides. This is achieved through studies of advanced stereochemistry, chemical modification, reactions, and synthesis. In addition to classes and reading from texts, there will be opportunities for independent written assignments on several of the topics.

Prerequisite: CHM247H1/CHM249H1

Exclusion: CHM347H5, CHMC47H3

Recommended Preparation: CHM217H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM348H1 - Organic Reaction Mechanisms

Hours: 24L/26P

Principles and methods of analyzing and predicting organic chemical reactivity: advanced stereochemistry, conformational analysis, molecular orbitals, reaction kinetics, isotope effects, linear free energy relationships, orbital transformations, systematization of mechanisms. The laboratory section is used to illustrate the operation of the principles, including examples of data acquisition for mechanistic analysis and theoretical computations. Regular original reports on methods and outcomes are an important part of the laboratory. (Lab Materials Fee: \$26).

Prerequisite: CHM247H1/ CHM249H1 with a minimum grade of 63%

Exclusion: CHM341H5, CHMC41H3

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM355H1 - Introduction to Inorganic and Polymer Materials Chemistry

Previous Course Number: CHM325H1

Hours: 24L

Fashioned to illustrate how inorganic and polymer materials chemistry can be rationally used to synthesize superconductors, metals, semiconductors, ceramics, elastomers, thermoplastics, thermosets and polymer liquid crystals, with properties that can be tailored for applications in a range of advanced technologies. Coverage is fairly broad and is organized to crosscut many aspects of the field.

Prerequisite: CHM220H1/ CHM222H1, (CHM236H1, CHM237H1), CHM247H1/ CHM249H1

Exclusion: CHM325H1, CHM426H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM379H1 - Biomolecular Chemistry

Hours: 24L/52P

This course provides an opportunity to learn core techniques in biological chemistry in a small group laboratory setting. It provides excellent preparation for a CHM499Y1 project in biological chemistry or related areas. Classes will discuss the theory behind the

techniques and highlight how they are used in modern biological chemistry research and practice. Note: CHM379H1 can be used as the biochemistry lab requirement for students completing double majors in chemistry and biochemistry. (Lab Materials Fee: \$39).

Prerequisite: (CHM247H1/ CHM249H1 with a minimum grade of 63%), CHM347H1, BCH210H1

Exclusion: BCH370H1, CHM371H5

Recommended Preparation: CHM217H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM395Y1 - Research Project in Chemistry

Hours: 180P

An independent research project conducted under the direction of a teaching faculty or research faculty member in the Department during March (for Summer Session projects) and during July/August (for Fall/Winter Session projects): the application form is available at the Department of Chemistry website. Not eligible for CR/NCR option.

Prerequisite: Completion of at least 2.0 CHM credits with a minimum cGPA of 3.0 in all CHM credits. Students are required to identify a potential faculty supervisor before contacting the Associate Chair, Undergraduate Studies for enrolment permission. Written confirmation is needed from both the Associate Chair, Undergraduate Studies and the prospective supervisor. Attendance at a mandatory safety orientation training session held during the first week of May (Summer Session projects) or September (Fall/Winter Session projects).

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM396Y0 - Research Topic Abroad

Course credit for research or field studies abroad under the supervision of a faculty member. Not eligible for CR/NCR option.

Prerequisite: At least 8.5 credits and no more than 14.0 credits, including at least 1.5 credits from 200-level Chemistry courses, or permission of the instructor.

Recommended Preparation: CHM299Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM397H0 - Research Abroad in Chemistry

Independent research project in Chemistry under the supervision by a faculty member in an approved partner institution. This unique opportunity to conduct a lab-based research project is open to students in any Chemistry programs. Not eligible for CR/NCR option.

Prerequisite: Any CHM 300-level courses with lab; permission of the Department

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

CHM398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

CHM399H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PHC401H1 - Drug Transport across Biological Membranes

Hours: 24L

The goal of this course is to provide students with knowledge of the molecular processes involved in drug transport across biological cell membranes with emphasis on their physiological and clinical significance. This course

is restricted to Pharmaceutical Chemistry Specialist program students.

Prerequisite: PHC301H1, and enrolled as a Year 4 student in the Pharmaceutical Chemistry specialist program.

Corequisite: PHC300H1

Exclusion: JFK1122H

Breadth Requirements: Living Things and Their Environment (4)

CHM410H1 - Analytical Environmental Chemistry

Hours: 24L/44P

An analytical theory, instrumental, and methodology course focused on the measurement of pollutants in soil, water, air, and biological tissues and the determination of physical/chemical properties including vapour pressure, degradation rates, partitioning. Lab experiments involve application of theory. (Lab Materials Fee: \$39).

Prerequisite: CHM217H1, CHM210H1/ CHM310H1

Recommended Preparation: CHM317H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM414H1 - Biosensors and Chemical Sensors

Hours: 24L

The development, design, and operation of biosensors and chemical sensors, including: biosensor technology, transducer theory and operation, device design and fabrication, surface modification and methods of surface analysis, flow injection analysis and chemometrics.

Prerequisite: CHM217H1/ CHM220H1/ CHM222H1

Recommended Preparation: CHM317H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM415H1 - Topics in Atmospheric Chemistry

Hours: 24L

Building upon the introductory understanding of atmospheric chemistry provided in CHM210H1, this course develops a quantitative description of chemical processes in the atmosphere. Modern research topics in the field are discussed, such as aerosol chemistry and

formation mechanisms, tropospheric organic chemistry, the chemistry of climate including cloud formation and geoengineering, biosphere-atmosphere interactions, and the chemistry of remote environments. Mathematical models of atmospheric chemistry are developed; reading is from the scientific literature; class discussion is emphasized.

Prerequisite: CHM210H1

Recommended Preparation: CHM220H1/ CHM222H1, (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM416H1 - Separation Science

Hours: 24L

This course provides theoretical and practical background useful for engaging in cutting-edge chemical separations in chemistry, biology, medicine, engineering, research, and industry. The course covers general separations concepts and principles, with an emphasis on liquid chromatography and its various modes, including partition chromatography, ion chromatography, enantiomer chromatography, size exclusion chromatography, and affinity chromatography. Other topics include materials and instrumentation, gas chromatography, supercritical fluid chromatography, electrophoresis and related techniques, and a host of miscellaneous separation (e.g., TLC, FFF, CF) and extraction (e.g., LLE, SPE, SPME) modalities. Classes are supplemented with online/virtual laboratory exercises.

Prerequisite: CHM317H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM417H1 - Laboratory Instrumentation

Hours: 24L/12P

This course provides an introduction to building and using optics- and electronics-based instrumentation for laboratory research, as well as for implementing custom software control. Class topics include passive electronic components, diodes and transistors, operational amplifiers, analogue-to-digital conversion, light sources and detectors, reflectors, refractors, polarizers, diffractors, and many others. Classes are supplemented by laboratories in which students work in teams to build fluorescent detection systems for chromatography over the course of several weeks. (Lab Materials Fee: \$26).

Recommended Preparation: CHM317H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHC420H1 - Application of Medicinal Chemistry to Pharmacology

Hours: 24L

This online course will build upon basic pharmacology and medicinal chemistry to make links between the basic sciences and demonstrate how basic principles can be used to improve clinical therapy. It will also include a critical evaluation of evidence for specific mechanisms and therapies. Topics covered include the effect of metabolism on drug response and factors that influence drug metabolism and kinetics; interactions of drugs with receptors, genetic differences in response, and mechanisms of tolerance; antimicrobials and antineoplastics; autotoxins, antihistamines, vasopressin, anticoagulants, iron, estrogens, androgens, and the use of drugs in the perinatal period; antithyroid drugs, drugs to treat diabetes, and corticosteroids; eicosanoids, antihyperlipidemic drugs, and vitamins; drugs affecting bone metabolism, cholinergic agonists and antagonists; adrenoceptor agonists and antagonists, agents affecting muscles and movement; opioids; CNS organization; anticonvulsants, anesthetics, and anxiolytics; antipsychotics, antidepressants, inotropic agents, antiarrhythmic drugs, diuretics; anti-inflammatory drugs, respiratory drugs, immune system organization; drugs to treat acid-peptic disorders, intestinal motility disorders, and inflammatory bowel disease; and adverse drug reactions and poisoning. An emphasis is placed on developing critical reasoning and evaluation skills to discern between standard of care and complementary therapies that have been developed in the past showing poor safety and/or efficacy, with poor regard to the scientific process. This course is restricted to Pharmaceutical Chemistry specialist program students.

Prerequisite: PHC301H1, PHC320H1, and enrolled as a Year 4 student in the Pharmaceutical Chemistry specialist program.

Exclusion: PHM240H1

Breadth Requirements: Living Things and Their Environment (4)

PHC421H1 - Biomolecular Interactions and Thermodynamics I

Hours: 36L

This course will consider many of the topics presented in the first half in much greater detail including a rigorous examination of the interpretation of experimental data. This course is intended for students whose research or interest is in the thermodynamics of biological molecules. This course is restricted to Pharmaceutical Chemistry specialist program students.

Prerequisite: Enrolled as a Year 4 student in the Pharmaceutical Chemistry specialist program.

Exclusion: PHM1130H

Breadth Requirements: Living Things and Their Environment (4)

CHM423H1 - Applications of Quantum Mechanics

Hours: 24L

Applications of time independent and time dependent perturbation theory to atomic and molecular problems, selection of topics from WKB approximation and the classical limit; the interaction of light with matter; elementary atomic scattering theory; molecular bonding.

Prerequisite: CHM326H1

Recommended Preparation: MAT223H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM427H1 - Statistical Mechanics

Hours: 24L

Ensemble theory in statistical mechanics. Applications, including imperfect gases and liquid theories. Introduction to non-equilibrium problems.

Prerequisite: CHM326H1, CHM328H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHC430H1 - Recent Developments in Dosage Form Design

Hours: 24L

Introduction to controlled drug delivery: Mechanisms and kinetics of controlled drug release. Fundamental theories and mathematical tools for the design of modern dosage forms. Development and applications of controlled drug delivery dosage forms. This course is restricted to Pharmaceutical Chemistry specialist program students.

Prerequisite: Enrolled as a Year 4 student in the Pharmaceutical Chemistry specialist program.

Exclusion: PHM324H1, PHM1109H

Recommended Preparation: PHC230H1, PHC330H1, PHC340Y1

Breadth Requirements: Living Things and Their Environment (4)

PHC431H1 - Selected Topics in Drug Development

Hours: 24L

In-depth discussion of implementation of pharmaceutical sciences in drug development strategies. Students will apply fundamental principles of pharmaceutics and drug delivery to current problems in the pharmaceutical industry. This course is restricted to Pharmaceutical Chemistry specialist program students.

Prerequisite: Enrolled as a Year 4 student in the Pharmaceutical Chemistry specialist program.

Exclusion: JFK1120H

Recommended Preparation: PHC230H1, PHC330H1, PHC340Y1

Breadth Requirements: Living Things and Their Environment (4)

PHC432H1 - Nanomedicines in Oncology

Hours: 24L

This course covers a range of topics that pertain to the development and application of nanomedicines in oncology. Students will gain an understanding of the biological barriers to drug delivery in oncology as well as the tremendous heterogeneity in cancer and the challenge this presents for treatment. The concepts of passive and active targeting of nanomedicines will be covered with critical assessment of the enhanced permeability and retention effect. A detailed overview of the most advanced nanotechnology-platforms for drug delivery (i.e., liposomes, block copolymer micelles and polymer-drug conjugates) will be provided with additional discussion of new emerging platforms. The integration of imaging in drug development and development of theranostics and therapeutic-diagnostic pairs will also be discussed. Special emphasis on critical evaluation of scientific literature and pre-clinical/clinical studies will be made throughout the course.

Prerequisite: PHC230H1, PHC330H1 and enrolled as a Year 4 student in the Pharmaceutical Chemistry specialist program.

Breadth Requirements: Living Things and Their Environment (4)

CHM432H1 - Organometallic Chemistry and Catalysis

Hours: 24L

Structure, bonding, and reactions of organometallic compounds, with emphasis on basic mechanisms, and industrial processes. Addition, metalation, elimination, important catalytic cycles, electrophilic, and nucleophilic reactions are considered on a mechanistic basis. Topics on modern organometallic chemistry and catalysis are covered.

Prerequisite: CHM338H1

Recommended Preparation: CHM348H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHC435H1 - Pharmaceutical Data Acquisition and Analysis

Hours: 22L/26P

This course introduces students to theoretical and applied concepts in designing and implementing electronic circuitry, for the purpose of collecting and analyzing experimental data in pharmaceuticals and other contexts. The course discusses introductory circuit design, with an emphasis on how common components work in scientific and pharmaceutical manufacturing instrumentation. Practical and mathematical aspects of circuit design are discussed (e.g., Ohm's Law, voltage dividers, analog vs. digital signals). There is a heavy emphasis on programming in C++ in the Arduino IDE which will complement learning activities. Specific topics include power calculations, logic gates, capacitance, microprocessor pin functionality, switching strategies for higher power devices (relays, transistors, MOSFETs), process control (on/off and PID controllers), and operational amplifiers. Data acquisition, smoothing, filtering, and logging strategies are also discussed. Each section has planned practical activities where circuits are built, programmed, and tested. After taking this course, students will be better equipped to build their own control circuits for undergraduate research projects and other applications.

Prerequisite: BCH210H1, CHM247H1/ CHM249H1, (MAT135H1, MAT136H1)/ MAT137Y1, PHC340Y1 and enrolled as a Year 4 student in the Pharmaceutical Chemistry specialist program.

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM437H1 - Bioinorganic Chemistry

Hours: 24L

This course examines the use of metals in biology. Topics include naturally occurring and medicinal ligands; transport, uptake and control of concentration of metal ions; and physical methods of characterization of metal

binding sites. The roles of metal ions in nature are discussed, including as structural and signaling elements in proteins, nucleic acids and DNA-binding complexes and proteins; as Lewis-acid centres in enzymes; as carriers of electrons, atoms and groups in redox proteins and enzymes; and as sources of biominerals; as radiopharmaceuticals.

Prerequisite: CHM236H1 + CHM237H1

Exclusion: CHM333H5, CHMD69H3

Recommended Preparation: CHM338H1 (strongly recommended), CHM347H1/ CHM379H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM440H1 - The Synthesis of Modern Pharmaceutical Agents

Hours: 24L

This course provides an overview of reactions and synthetic strategies that are being used at different stages of the drug development process. Using representative examples from the literature, we will concentrate on synthesis of complex heterocyclic compounds.

Prerequisite: CHM342H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM441H1 - Spectroscopic Analysis in Organic Chemistry

Hours: 24L/20P

Structure and stereochemistry determination using modern spectroscopic techniques. Several techniques are discussed but particular emphasis is given to NMR (1H and 13C NMR) and mass spectrometry. The approach taken emphasizes applications of these spectroscopic methods to organic problems. Students are trained to run their own spectra (IR, UV, NMR, GC-MS). (Lab Materials Fee: \$26).

Prerequisite: CHM249H1, CHM343H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM443H1 - Physical Organic Chemistry

Hours: 24L

Noncovalent binding forces, solutions, and molecular recognition. Electronic structure theory and computational techniques. Reaction mechanisms: experimental probes and reactive intermediates, including carbenes and radicals. Photophysics and photochemistry of organic compounds.

Prerequisite: [CHM220H1](#)/ [CHM222H1](#), [CHM348H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM447H1 - Bio-organic Chemistry

Hours: 24L

Mechanisms in biochemical systems: Examples of biological catalysis are considered in terms of chemical mechanisms and their extensions, overcoming barriers catalytic groups in active sites, stereochemical applications, energy transfer, kinetic patterns, inhibitors, drug design, cofactors, ribozymes, and proteosomes. Related current issues are noted and discussed. The format includes class material integrated with student discussions.

Prerequisite: [CHM347H1](#), [CHM348H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM455H1 - Advanced Materials Chemistry

Previous Course Number: CHM434H1

Hours: 24L

A comprehensive investigation of synthetic methods for preparing diverse classes of inorganic materials with properties intentionally tailored for a particular use. Begins with a primer on solid-state materials and electronic band description of solids followed by a survey of archetypical solids that have had a dramatic influence on the materials world, some new developments in materials chemistry and a look at perceived future developments in materials research and technology. Strategies for synthesizing many different classes of materials with intentionally designed structures and compositions, textures and morphologies are then explored in detail emphasizing how to control the relations between structure and property of materials and ultimately function and utility. A number of contemporary issues in materials research are critically evaluated to appreciate recent highlights in the field of materials chemistry - an emerging sub-discipline of chemistry.

Prerequisite: [CHM325H1](#)/ [CHM355H1](#), [CHM338H1](#)

Exclusion: [CHM434H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM456H1 - Organic Materials Chemistry

Previous Course Number: CHM446H1

Hours: 24L

This course covers design, synthesis, characterization and application of organic materials. Emphasis is placed on classic examples of organic materials including semiconducting polymers, molecular devices, self-assembled systems, and bioconjugates, as well as recent advances from the literature.

Prerequisite: [CHM220H1](#)/ [CHM222H1](#), [CHM247H1](#)/ [CHM249H1](#)

Exclusion: [CHM446H1](#)

Recommended Preparation: [CHM355H1](#), [CHM342H1](#)/ [CHM343H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM457H1 - Polymer Chemistry

Previous Course Number: CHM426H1

Hours: 24L/12T

Scope of polymer chemistry. Classification of polymers. Synthesis and characterization. Polymers in solution. Thermodynamics of polymer solutions and blends, Flory-Huggins theory. Polymers in the solid state. Crystalline and amorphous polymers. Glass transition and melting temperature. Mechanical properties. Polymers as advanced materials.

Prerequisite: [CHM220H1](#)/ [CHM222H1](#), [CHM247H1](#)/ [CHM249H1](#)

Exclusion: [CHM426H1](#)

Recommended Preparation: [CHM355H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM458H1 - Soft Materials for Life, Energy, and the Environment

Hours: 24L

In the framework of a dry lab, students will analyze and interpret characterization data, extending their existing knowledge of chemical fundamentals and experimental techniques to polymeric systems. Through a combination of classes, dynamic group collaborations, and self-paced assignments, students will actively engage with peers to

understand course materials (including published literature), explore how polymer innovations are commercialized, and develop a toolkit for leveraging instrumentation to investigate hypotheses in research.

Prerequisite: CHM247H1/ CHM249H1/ MSE245H1, CHM220H1/ CHM222H1/ CHM223H1/ APS110H1

Recommended Preparation: CHM355H1, CHM342H1/ CHM343H1, CHM426H1/ CHM457H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHC460H1 - Fundamentals of Drug Discovery

Hours: 24L

Lectures by scientists from academia and industry, and student seminars based on journal articles dealing with strategies for discovering new drugs for therapy and diagnosis. This course is restricted to Pharmaceutical Chemistry specialist program students.

Prerequisite: BIO120H1, BIO130H1, PHC301H1 and enrolled as a Year 4 student in the Pharmaceutical Chemistry program.

Breadth Requirements: Living Things and Their Environment (4)

PHC462H1 - Clinical Drug Development

Hours: 24L

This course is designed to broaden student's understanding of the development and licensing of new drugs and how scientific principles, ethics, governmental regulations and commercial considerations are coordinated for designing clinical trials. The format involves lectures, group discussion and student presentations. This course is restricted to Pharmaceutical Chemistry specialist program students.

Prerequisite: PHC230H1, PHC301H1, PHC340Y1 and enrolled as a Year 4 student in the Pharmaceutical Chemistry specialist program.

Exclusion: JFK1120H

Breadth Requirements: Society and its Institutions (3)

PHC470H1 - Global Pharmaceutical Policy

Hours: 24L/2T

This course is designed for students who are interested in the critical analysis of global health policy and the

interrelationship between global and domestic policy issues. The course will introduce students generally to the basic concepts and issues in global health with a particular focus on pharmaceutical policy. We will address key issues in health and discuss core institutional and transnational actors, how governments in different jurisdictions manage public health responsibilities, the tension between economic imperatives and health objectives, global obligations, and pressure from special interest groups. More narrowly, we will analyze a breadth of complex policies questions. Examples include: the research and development global divide, political issues influences on pharmaceutical policy, how global commitments, such as membership in the World Trade Organization, conflict with or correspond to domestic policy directions and national sovereignty. Guest speakers will lead some sessions. This course will consist of lectures, guest discussions, case studies and student-led presentations. This is restricted to students in the Pharmaceutical Chemistry specialist program.

Prerequisite: Enrolled as a Year 4 student in the Pharmaceutical Chemistry specialist program.

Exclusion: PHM320H1, PHM1124H

Breadth Requirements: Society and its Institutions (3)

CHM479H1 - Biological Chemistry

Hours: 24L

An in depth examination of biological systems at the molecular level. Several complex, multi-component molecular machines with a central role in life will be examined. For each system studied, the focus will be on understanding the chemical mechanisms that underlie the biological activities, and how these processes fit into a cellular context.

Prerequisite: BCH210H1/ BCH242Y1, CHM347H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHC489Y1 - Pharmaceutical Chemistry Research

Hours: 165P

This course will provide research experience under the supervision of a Departmental staff member. The goal is to deepen the student's understanding of the scientific basis and practical techniques relevant to modern pharmaceutical development. This course is restricted to Pharmaceutical Chemistry specialist program students. Not eligible for CR/NCR option.

Prerequisite: Permission from the Course Coordinator and enrolled as a Year 4 student in the Pharmaceutical

Chemistry specialist program.

Breadth Requirements: Living Things and Their Environment (4)

CHM499Y1 - Introduction to Chemistry Research

Hours: 240P/16S

An experimental or theoretical research problem under the supervision of a teaching faculty or research faculty member in the Department of Chemistry. Five mandatory 90-minute professional development workshops cover aspects of academic writing, poster presentations, reading scientific literature, and job applications/interviews. Each student is required to attend a total of six one-hour research colloquia during the Fall and Winter Sessions. Applications for enrolment should be made to the Department in the preceding Winter Session: the application form is available on the Department of Chemistry website. Only students being admitted are required to contact chemistry faculty to discuss available research projects. Projects are in the areas of environmental, analytical, physical, inorganic, materials, polymer, organic and biological chemistry. Not eligible for CR/NCR option.

Prerequisite: Permission of the department. Minimum cGPA of 3.0 in CHM program courses. Research positions are limited. Students with strong background on courses in the sub-discipline of research interest will be given preference. Attendance at a mandatory safety orientation training session held during the first week of September.

Exclusion: CHM489Y5, CHMD90Y3, MSE498Y1, PHC489Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

Cinema Studies Institute

Faculty List

Professors Emeriti

E.K. Armatage, PhD
B.W. Testa, MA

Professors

C. Keil, PhD
B.C. Lim, PhD
N. Sammond, PhD

Associate Professors

J. Cahill, PhD
C. Columpar, PhD
A. Fenner, PhD
S.C. Richmond, PhD
A. Zambenedetti, PhD

Associate Professor, Teaching Stream

K. Banning, MA

Assistant Professors

N. Chan, PhD
L.M. Cramer, PhD
B. Story, PhD

Introduction

At the turn of the twentieth century cinema emerged as a new mass entertainment, an art form, a source of information, and a product of economic and social power. Cinema adapted to and absorbed novel technologies, such as sound, color, 3-D, and, later, digital techniques at a rapid pace. As shifting political and economic forces came into play, cinema continued to assume a key role in moving-image culture. During its history, cinema has absorbed seismic shocks in ideas and ideologies, and responded to the shifting politics of race, gender, class, and sexuality that have defined modern society. Now, in the twenty-first century, an evolving mediascape driven by digital technologies offers exciting opportunities to assess the ever-changing role of cinema across global cultures.

Because of its status as a major art form and a vital social practice, cinema has assumed a crucial place within the university. The Cinema Studies Institute has, for almost five decades, developed into a major area of academic research, study, and teaching at the University of Toronto and has contributed in pivotal ways to the development of the discipline both in Canada and internationally.

Cinema Studies offers courses that reflect the diversity of cinematic experience: film analysis, history, social practice, and theory are at the core of the program. Other topics also receive emphasis, including distinct types of film (such as documentary, animation, and the avant-garde), film genres, media cultures, and new media forms. Our courses explore the global dimension of cinema, investigating national and transnational cinema. They raise issues of how race, class, and gender operate in moving image culture. Cinema Studies offers a range of research methods, scholarly frameworks, and learning opportunities; all are designed to develop students' abilities to understand cinema within a wide range of contexts - critical, economic, cultural, technological, and aesthetic. Graduates of the Cinema Studies Institute achieve learning outcomes that include a strong historical and theoretical foundation coupled with advanced analytical and critical skills. Our graduates are well-equipped to apply their knowledge to a variety of media-related careers and avocations. They have become arts and entertainment journalists, film programmers, and image archivists, and have found a diversity of positions within the film, television, and new media sectors.

Since its inception, Cinema Studies has had its administration, teaching, and research home at Innis College, which also houses its faculty. Innis offers specially-equipped facilities and a cordial and intimate setting for cinema students. For more information about Innis College, go to innis.utoronto.ca.

Enquiries: Denise Ing, Undergraduate Program Assistant, Room 232AE, Innis College (416-978-8571), cinema.studies@utoronto.ca, or the Cinema Studies website, cinema.utoronto.ca.

Cinema Studies Institute Programs

Cinema Studies Specialist (Arts Program) - ASSPE0797

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- [CIN105Y1](#) or [CIN201Y1](#)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 70% will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

Completion Requirements:

(10.0 credits)

First Year:
CIN105Y1

Second Year:
CIN201Y1

Third Year:
CIN301Y1

Fourth Year:
1.0 credit from the following: CIN410H1, CIN411H1, CIN412H1, CIN420H1, CIN430H1, CIN431H1, CIN432H1, CIN440H1, CIN450H1, CIN451H1, CIN452H1, CIN460H1, CIN461H1, CIN470H1, CIN471H1, CIN472H1, CIN480H1

Second, Third and Fourth Year:
In addition, CIN230H1 or a 0.5 credit from Breadth Category 5; and at least 5.5 credits from Groups B through G, of which 3.0 credits must be at the 300/400-level, and a maximum of 2.0 credits can be from Group G: Cross-Listed

Students must complete CIN105Y1 and CIN201Y1 before taking any fourth-year courses.

Group A: Foundations
CIN105Y1, CIN201Y1, CIN301Y1

Group B: Genre and Modes
CIN210H1, CIN211H1, CIN212H1, CIN213H1, CIN214H1, CIN215H1, CIN216H1, CIN310Y1, CIN312Y1, CIN314Y1, CIN320H1, CIN321H1, CIN322H1, CIN410H1, CIN411H1, CIN412H1, CIN420H1

Group C: Social and Cultural Practices
CIN230H1, CIN240H1, CIN330Y1, CIN332Y1, CIN334H1, CIN335H1, CIN336H1, CIN337H1, CIN338H1, CIN340H1, CIN341H1, CIN349H1, CIN430H1, CIN431H1, CIN432H1, CIN440H1

Group D: Theory and Criticism
CIN250Y1, CIN260H1, CIN352H1, CIN353H1, CIN360H1, CIN361H1, CIN362H1, CIN363H1, CIN364H1, CIN365H1, CIN366H1, CIN369H1, CIN450H1, CIN451H1, CIN452H1, CIN460H1, CIN461H1

Group E: History and Nation
CIN270Y1, CIN370H1, CIN371H1, CIN372Y1, CIN374Y1, CIN376Y1, CIN376Y0, CIN378H1, CIN378Y0, CIN379H1, CIN380H1, CIN381H1, CIN470H1, CIN471H1, CIN472H1,

CIN480H1, FCS310Y1, GER251H1, ITA240Y1, ITA340H1, ITA341H1, ITA342H1, ITA345H1

Group F: Independent Studies
CIN490Y1, CIN491H1, CIN492H1

Group G: Cross-Listed
CLT355H1, EAS242H1, EAS243H1, EAS249H1, EAS278H1, EAS431H1, FCS392H1, FIN250H1, FIN260H1, GER250H1, HIS345H1, HIS459H1, HIS460H1, HIS467H1, JSU325H1, SLA226H1, SLA234H1, SLA333H1, SPA275H1

Note: Effective Fall 2021, courses associated with St. Michael's College's Celtic Studies program will have the new "CLT" designator.

Cinema Studies Major (Arts Program) - ASMAJ0797

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade
A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- CIN105Y1 or CIN201Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 70% will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

Completion Requirements:

(7.0 credits)

First Year:
CIN105Y1

Second Year:
CIN201Y1

Third Year:
CIN301Y1

Fourth Year:
0.5 credit from the following: CIN410H1, CIN411H1, CIN412H1, CIN420H1, CIN430H1, CIN431H1, CIN432H1,

CIN440H1, CIN450H1, CIN451H1, CIN452H1, CIN460H1,
CIN461H1, CIN470H1, CIN471H1, CIN472H1, CIN480H1

Second, Third and Fourth Year:

In addition, CIN230H1 or 0.5 credit from Breadth Category 5; and at least 3.0 credits from Groups B through G, of which 2.0 credits must be at the 300/400-level, and only a maximum of 1.5 credits can be from Group G: Cross-Listed

Students must complete CIN105Y1 and CIN201Y1 before taking any fourth-year courses.

Group A: Foundations

CIN105Y1, CIN201Y1, CIN301Y1

Group B: Genre and Modes

CIN210H1, CIN211H1, CIN212H1, CIN213H1, CIN214H1,
CIN215H1, CIN216H1, CIN310Y1, CIN312Y1, CIN314Y1,
CIN320H1, CIN321H1, CIN322H1, CIN410H1, CIN411H1,
CIN412H1, CIN420H1

Group C: Social and Cultural Practices

CIN230H1, CIN240H1, CIN330Y1, CIN332Y1, CIN334H1,
CIN335H1, CIN336H1, CIN337H1, CIN338H1, CIN340H1,
CIN341H1, CIN349H1, CIN430H1, CIN431H1, CIN432H1,
CIN440H1

Group D: Theory and Criticism

CIN250Y1, CIN260H1, CIN352H1, CIN353H1, CIN360H1,
CIN361H1, CIN362H1, CIN363H1, CIN364H1, CIN365H1,
CIN366H1, CIN369H1, CIN450H1, CIN451H1, CIN452H1,
CIN460H1, CIN461H1

Group E: History and Nation

CIN270Y1, CIN370H1, CIN371H1, CIN372Y1, CIN374Y1,
CIN376Y1, CIN376Y0, CIN378H1, CIN378Y0, CIN379H1,
CIN380H1, CIN381H1, CIN470H1, CIN471H1, CIN472H1,
CIN480H1, FCS310Y1, GER251H1, ITA240Y1,
ITA340H1, ITA341H1, ITA342H1, ITA345H1

Group F: Independent Studies

CIN490Y1, CIN491H1, CIN492H1

Group G: Cross-Listed

CLT355H1, EAS242H1, EAS243H1, EAS249H1,
EAS278H1, EAS431H1, FCS392H1, FIN250H1,
FIN260H1, GER250H1, HIS345H1, HIS459H1,
HIS460H1, HIS467H1, JSU325H1, SLA226H1,
SLA234H1, SLA333H1, SPA275H1

Note: Effective Fall 2021, courses associated with St. Michael's College's Celtic Studies program will have the new "CLT" designator.

Cinema Studies Minor (Arts Program) - ASMIN0797

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- CIN105Y1 or CIN201Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 70% will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

Completion Requirements:

(4.0 credits)

First Year:
CIN105Y1

Second Year:
CIN201Y1

Second, Third and Fourth Year:

2.0 credits from Groups A through G, of which 1.0 credit must be at the 300/400-level, and only a maximum 1.0 credit can be from Group G: Cross-Listed

Students must complete CIN105Y1 and CIN201Y1 before taking any fourth-year courses.

Group A: Foundations

CIN105Y1, CIN201Y1, CIN301Y1

Group B: Genre and Modes

CIN210H1, CIN211H1, CIN212H1, CIN213H1, CIN214H1,
CIN215H1, CIN216H1, CIN310Y1, CIN312Y1, CIN314Y1,
CIN320H1, CIN321H1, CIN322H1, CIN410H1, CIN411H1,
CIN412H1, CIN420H1

Group C: Social and Cultural Practices

CIN230H1, CIN240H1, CIN330Y1, CIN332Y1, CIN334H1,
CIN335H1, CIN336H1, CIN337H1, CIN338H1, CIN340H1,
CIN341H1, CIN349H1, CIN430H1, CIN431H1, CIN432H1,
CIN440H1

Group D: Theory and Criticism

CIN250Y1, CIN260H1, CIN352H1, CIN353H1, CIN360H1,
CIN361H1, CIN362H1, CIN363H1, CIN364H1, CIN365H1,
CIN366H1, CIN369H1, CIN450H1, CIN451H1, CIN452H1,
CIN460H1, CIN461H1

Group E: History and Nation

CIN270Y1, CIN370H1, CIN371H1, CIN372Y1, CIN374Y1,
CIN376Y1, CIN376Y0, CIN378H1, CIN378Y0, CIN379H1,
CIN380H1, CIN381H1, CIN470H1, CIN471H1, CIN472H1,
CIN480H1, FCS310Y1, GER251H1, ITA240Y1,
ITA340H1, ITA341H1, ITA342H1, ITA345H1

Group F: Independent Studies

CIN490Y1, CIN491H1, CIN492H1

Group G: Cross-Listed

CLT355H1, EAS242H1, EAS243H1, EAS249H1,
EAS278H1, EAS431H1, FCS392H1, FIN250H1,
FIN260H1, GER250H1, HIS345H1, HIS459H1,
HIS460H1, HIS467H1, JSU325H1, SLA226H1,
SLA234H1, SLA333H1, SPA275H1

Note: Effective Fall 2021, courses associated with St. Michael's College's Celtic Studies program will have the new "CLT" designator.

Cinema Studies Institute Courses

CIN105Y1 - Introduction to Film Study

Hours: 24L/24T/72P

Introduction to film form (including style and narration), different types of films, and popular approaches to the study of cinema. Topics include: narrative cinema, documentary, *avant-garde*, genre, authorship, ideology, and representation.

Exclusion: ENGB70H3, ENGB75H3, ENGB76H3, CIN101H5

Breadth Requirements: Creative and Cultural Representations (1)

CIN196H1 - Story Worlds and the Cinema

Hours: 24S

Films create story worlds, imaginary environments in which characters live and act, and where events, large and small, transpire. Some story worlds are elaborate, fanciful constructs (think of Disney's animated films). Others stay close to reality (think of "docudramas"). But across the spectrum, all of them are framed by and provided with rules of time and space, of believable or impossible. This course offers an examination of selected story worlds from several periods of film history. Emphasis falls on the expansive story worlds of contemporary corporately-run media-franchise "universes," like the cross-media "DC Universe." Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CIN197H1 - School Daze

Hours: 24P/24S

This first-year foundation course is a survey of sound film (with a brief selection of silent shorts) on the topic of how popular cinemas have represented going to school. Looking at one film and one scholarly text a week, the course will offer an introduction to the close reading of film texts, reading and writing film criticism, and the fundamentals of film history. By engaging with only one film/reading per week, the course emphasizes depth over breadth. Texts for the course may include excerpts from Corrigan's *A Short Guide to Writing About Film*, Sturken and Cartwright's *Practices of Looking*, Staiger's *Interpreting Films*, and Prince's *Movies and Meaning*, along with selected criticism on the movies screened. Those films may include *Zero for Conduct*, *Aparajito*, *Tom Brown's School Days*, *Tea and Sympathy*, *If, Rock and Roll High School*, *Mean Girls*, *School Daze*, *Blackboard Jungle*, or *Lady Bird*. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CIN201Y1 - Film Cultures I: Art and Industry

Hours: 24L/24T/72P

Examines the practices, theories, and debates surrounding the emergence of cinema through to the development of studio system filmmaking in the first half of the 20th Century. Topics include: film's relation to the other arts, formalist and realist traditions, technological innovations, audiences and reception, and cultural industries.

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

CIN210H1 - Horror Film

Hours: 12L/12T/36P

Horror film as a genre, focusing on three types of international horror: the un-dead, body horror, and the supernatural. The genre's popular appeal, affective power, unique means of producing pleasure, and current global resurgence will be emphasized. Topics include: the aesthetics of gore and violence, technologies of fear, J-Horror, new French extremity, cult fandom and paracinema, and media convergence.

Breadth Requirements: Creative and Cultural Representations (1)

CIN211H1 - Science Fiction Film

Hours: 12T/36P

This course is the study of science fiction films in their cultural and political contexts and the genre's narrative and conceptual components. The goal of the course is to familiarize students with science fiction films as popular genre texts, emphasizing the period between 1950 and the present.

Breadth Requirements: Creative and Cultural Representations (1)

CIN212H1 - Cinema and Sensation I: Action/Spectacle

Hours: 12L/12T/36P

Action movies cement the dominance of commercial cinema, and they largely define the contemporary era of the blockbuster and CGI effects. This course examines the narrative modes and the extremes that action scenes reach, and it explores the commercial and social function of the genre. The course also traces Action's historic reach and global diversity to include its significant precursors and transnational forms that Action cinema takes on.

Breadth Requirements: Creative and Cultural Representations (1)

CIN213H1 - Cinema and Sensation II: Sex

Hours: 12L/12T/36P

Erotic images and sounds have long featured in filmic pleasure and, for just as long, excited controversy. This course examines how sex is articulated on screen and how its regulation suggests broader themes and ideas. Topics include: obscenity laws and the history of film censorship, the eroticized aspects of conventional movies, art cinema, and "adult" erotic films.

Breadth Requirements: Creative and Cultural Representations (1)

CIN214H1 - New Media Forms

Hours: 36L/12T

Introduction to the study of new and contemporary media forms, with a focus on aesthetic and moving-image media. Students will learn key concepts in digital media studies through close examination of historical and contemporary examples from art, cinema, video, and games. Course readings draw on interdisciplinary critical models from cinema studies, cultural studies, art history, and digital media studies.

Breadth Requirements: Creative and Cultural Representations (1)

CIN215H1 - Fantasy Film

Hours: 12L/12T/36P

This course examines the development of the Fantasy imagination in cinema from the start of film production (i.e., Georges Méliès) through the classical era (i.e., *Wizard of Oz*) to the contemporary proliferation of Fantasy cinema (i.e., *Lord of the Rings*, *Snow White and the Huntsman*). Course includes study of Asian, European, and South American Fantasy films.

Breadth Requirements: Creative and Cultural Representations (1)

CIN216H1 - Crime Film Traditions

Hours: 12L/12T/36P

Originating in the mid-19th century from journalistic accounts and detective stories, crime fiction has emerged as one of the dominant popular genres in the 20th century

across a variety of media and platforms, from true crime dime novels to radio dramas, from hard-boiled literature to prestige television series. Rejuvenated in the 21st century by the consolidation of gaming culture and the rise of podcasting, crime narratives have expanded to transmediality, stretching the boundaries between fiction and documentary practices. In this context, the culturally porous and generically elastic crime film had remained one of the most enduring cinematic expressions of sociopolitical anxieties related to class, gender, race, and ethnicity. This course examines a selection of crime film traditions across various geographical areas and historical periods, investigating the resilience of this form from the silent period to the present day.

Breadth Requirements: Creative and Cultural Representations (1)

CIN230H1 - The Business of Film

Hours: 36L/12T

Examines cinema as a commercial enterprise, emphasizing production, distribution, and exhibition and the political economy of North American film culture.

This is a Breadth Category 3 course but has been specially-designed to fulfill the Quantitative Reasoning requirement for Cinema Studies Specialists and Majors.

Breadth Requirements: Society and its Institutions (3)

CIN240H1 - Special Topics in Cinema Studies

Hours: 12L/12T/36P

Course on special topics in Cinema Studies. Topics vary each year.

Breadth Requirements: Society and its Institutions (3)

CIN250Y1 - Directors: Four Studies in Film Authorship

Hours: 48L/48P

This course takes four selected directors' films and examines them analytically and interpretively. The purpose of the course is to apply and test the *auteur* theory in the context of concepts of film style and film conventions.

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN260H1 - Selected Topics in Cinema Studies

Hours: 12L/12T/36P

Course on selected topics in Cinema Studies. Past topics include: "New Media."

Breadth Requirements: Creative and Cultural Representations (1)

CIN270Y1 - American Popular Film Since 1970

Hours: 48L/24T/48P

The examination of popular American cinema through its social, political, and commercial practices, and through the study of selected popular films from the 1970s to the present.

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

CIN301Y1 - Film Cultures II: Politics and Global Media

Hours: 24L/24T/72S

Examines film theory and practice from the 1950s onward, and the impact of media change on earlier film cultures and aesthetics. Topics include: New Wave cinemas, the politicization of theory, spectatorship, counter-cinemas, transnational film and "Global Hollywood", and media theory from the analog to the digital.

Prerequisite: CIN105Y1, CIN201Y1

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

CIN310Y1 - Avant-Garde and Experimental Film

Hours: 48L/72P

Avant-garde films, both canonical and marginal, are examined mainly in the context of modern art and poetry from the 1920s through the 1990s. Films include works

from Europe, North America, and Japan. Art contexts range from Cubism, Dada, and Surrealism in the 1920s to Neo-Dada, Abstract Expressionism, Pop, and Postmodernism.

Prerequisite: CIN105Y1

Exclusion: ENG91H3, CIN402H5

Breadth Requirements: Creative and Cultural Representations (1)

CIN312Y1 - Documentary Film

Hours: 48L/48P

Critical and historical survey of documentary practice, including cinema vérité, ethnographic experiments, and various hybrid forms, with emphasis on the rhetorical, aesthetic, and political dimensions of the "art of record." Topics include: the filmmaker/subject/audience nexus; historiography, hagiography, and performance; and how emerging technology and new media platforms, evinced in the rise of documentary-based webdocs, i-docs, and webgames, affect the actual production and style of linear documentary, as well as impact earlier models of documentary exhibition, distribution, and viewer engagement alike.

Prerequisite: CIN105Y1

Exclusion: ENG94H3

Recommended Preparation: CIN201Y1

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

CIN314Y1 - Genre, Narrative and Narration in Film

Hours: 48L/72P

Study of theoretical-analytical models of film genres, narrative form, and narration. Structuralist, cognitive-neoformalist, and historiographical approaches will be developed. Genres to be studied include: Westerns, musicals, crime films, biography films, gothic and fantastic films, and art cinema.

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

CIN320H1 - Special Topics in Genre and Modes

Hours: 24L/24P

Courses in special topics designed for Specialists and Majors in Cinema Studies. Past topics include: "Contemporary Screen Comedy," and "Eco-cinema: The Nature of Film."

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN321H1 - Special Topics in Genre and Modes II

Hours: 24L/24P

Courses in special topics designed for Specialists and Majors in Cinema Studies.

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN322H1 - Cult Cinema

Hours: 24L/24P

This course examines "cult" and "exploitation" cinema. It examines the growing popularity of cult/exploitation films as an emerging cinematic subculture that valorizes disreputable or "trash" cinema. A number of sub-genres within exploitation film, including teen films, educational/instructional films, sexploitation, and Blaxploitation, will be explored. The social politics of appropriating texts through ironic reading strategies will also be considered.

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN330Y1 - Feminist Approaches to Cinema

Hours: 48L/48P

Gender politics of feminist film culture since the 1970s. Topics include: apparatus theory and its legacy, models of spectatorship, feminist historiography, the cinematic (re)production of identity, the relationship between social movements and cinema, "postfeminism."

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

CIN332Y1 - Screening Race

Hours: 48L/48P

How race functions in cinema. Topics include: the foundational role of racial inscription and its expansion beyond the black/white paradigm, visual ethnography, 'the primitive,' and Orientalism, indigenous media, the 'Black Atlantic' and Diaspora, Banlieu and exilic film practice and theory, border aesthetics, race and urban space, 'post-race', and the evolving racial imaginary.

Prerequisite: [CIN105Y1](#), [CIN201Y1](#)

Exclusion: [FLMB80H3](#)

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

CIN334H1 - The Origins of the Animation Industry, 1900-1950: A Technosocial History

Hours: 24L/36P

An introduction to early animation, considering its vaudeville roots, industrialization, emerging aesthetics, and representational tropes. Examination of the early corpus of animation from 1900-1950, and in-depth study of the artistic, social, and cultural milieux from which animation derived.

Prerequisite: [CIN105Y1](#), [CIN201Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN335H1 - Animation after 1950

Hours: 24L/36P

This course examines the second fifty years of animation, first by marking Disney's shifting fortunes, then broadening the scope to take in its competitors here and abroad. The global nature of postwar animation has been an odd amalgam of competition and cooperation, of private and public funding, and of film, television, and eventually webcasting, and we will explore some of the changes the form has gone through in the past fifty years or so. Since this is a study of art and of commerce, and of high and low culture, we will view our limited history through the lenses of aesthetics, cultural practices, business decisions, and sometimes political struggle.

Prerequisite: [CIN105Y1](#), [CIN201Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN336H1 - Queer Film and Media

Hours: 48L

This course focuses on queer film, television, and/or digital media. Approaches may include cultural, historical, analytical, critical, and theoretical methods. This course may focus on the representation of queer people in film in media, or film and/or media made by queer people, or both.

Prerequisite: [CIN105Y1](#), or 1.0 credit from: [SDS255H1](#), [SDS256H1](#), [SDS279H1](#), [SDS355H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN337H1 - Black Cinema

Hours: 24L/24P

This course explores the cultural, aesthetic, technological, and political category of "Black cinema." Across the diaspora, Black cinema is an artistic praxis that utilizes techniques like improvisation and collaboration in order to make and remake the cinematic archive. The films and filmmakers in this category intervene in cinematic histories by responding to exclusionary narratives, technologies, and critical discourse by imagining alternative stories, spaces, and temporalities. Thus, these films help articulate both the pervasiveness of anti-blackness in our visual culture and help us understand the *difference* (film) aesthetics can make (Chun, 2019).

Our goal is to 1) develop a critical language to discuss Black cinema (its techniques, its aims, and its political contexts) and 2) articulate research questions, methods, and arguments that consider what is happening inside and outside the frame in these films.

Prerequisite: [CIN105Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN338H1 - Environmental Media

Hours: 24L/24P

This course is interested in exploring the many relationships between media and the environment. We not only analyze the representations of environmentality in film, photography, video games, and digital media, but also the material entanglements of media technologies and infrastructures with environment—broadly defined. Adopting conceptual approaches in elemental, infrastructural, and architectural media studies, we seek to uncover and politicize media's troubled relationship with environmentality.

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN340H1 - Special Topics in Cinema as Social and Cultural Practice

Hours: 24L/24P

Courses in special topics designed for Specialists and Majors in Cinema Studies. Past topics include: "History of Cinematography," and "Everyday Life in the Digital Age."

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN341H1 - Special Topics in Cinema as Social and Cultural Practice II

Hours: 24L/24P

Courses in special topics designed for Specialists and Majors in Cinema Studies.

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN349H1 - Screenwriting

Hours: 24S

Students will develop screenwriting skills under the guidance of a renowned Canadian screenwriter through a combination of writing workshops and individual consultations. Like the course, the appointment of the Universal Screenwriter-in-Residence occurs biannually.

Prospective students must submit an application form that will be found at [Cinema Studies Institute Undergraduate Forms](#) and provide a creative writing sample to the Cinema Studies Undergraduate Office by email to cinema.studies@utoronto.ca by April 30. A screenplay (or excerpt) is preferred, but a submission that the students feel best expresses their talent is also acceptable. The course instructor and/or Undergraduate Coordinator will assess student potential based on the writing samples to determine student eligibility to enrol in the course. Enrolment priority will be given to upper year Cinema Studies program students.

Prerequisite: CIN105Y1, CIN201Y1, and 2.0 additional CIN credits

Exclusion: VIC276H1, CRE276H1

Breadth Requirements: Creative and Cultural Representations (1)

CIN352H1 - Issues in Film Authorship I

Hours: 24L/24P

Advanced study of issues in film authorship through intensive examination of one or more major filmmakers.

Prerequisite: CIN105Y1

Exclusion: ENGD52H3, CIN206H5

Breadth Requirements: Creative and Cultural Representations (1)

CIN353H1 - Issues in Film Authorship II

Hours: 24L/24P

Advanced study of issues in film authorship through intensive examination of one or more major filmmakers.

Prerequisite: CIN105Y1

Exclusion: ENGD52H3, CIN206H5

Breadth Requirements: Creative and Cultural Representations (1)

CIN360H1 - Special Topics in Theory and Criticism

Hours: 24L/24P

Courses in special topics designed for Specialists and Majors in Cinema Studies. Past topics include: "Cinema and Intermediality."

Prerequisite: CIN105Y1, CIN201Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

CIN361H1 - Special Topics in Theory and Criticism II

Hours: 24L/24P

Courses in special topics designed for Specialists and Majors in Cinema Studies.

Prerequisite: CIN105Y1, CIN201Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

CIN362H1 - Animals and Cinema

Hours: 24L/24P

This course explores cinema's century-long fascination with animals. Its investigations are organized around three central questions. First, what does cinema teach us about animals (why and how we look at animals on film, how we represent and understand animals through film, and what lessons we hope to gain from animals on film)? Second, what do animal films reveal or teach us about the cinema? Third, what are the aesthetic, theoretical, and ethical stakes of such encounters between animals and cinema?

Prerequisite: CIN105Y1, CIN201Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

CIN363H1 - Ecocinema: The Nature of Film

Hours: 24L/24P

This course takes a broad approach to the growing field – sometimes termed “ecocinema” or “film ecology” – devoted to cinema’s relationship to the natural environment. We will consider that relationship through a combination of historical, textual, and theoretical analysis.

Prerequisite: CIN105Y1, CIN201Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN364H1 - Theories of Media

Hours: 48L

In-depth history of humanistic theories of media and mediation, with a focus on aesthetics. Authors discussed may include Karl Marx, Walter Benjamin, Sigmund Freud, Marshall McLuhan, Friedrich Kittler, Donna Haraway, Bernard Stiegler, Katherine Hayles, and others. Includes substantial discussion of contemporary problems and authors in digital media studies and media theory. Includes extensive consideration of aesthetic forms, including animation, cinema, television, installation art, video games, net.art, and others.

Prerequisite: CIN105Y1

Recommended Preparation: CIN214H1

Breadth Requirements: Creative and Cultural Representations (1)

CIN365H1 - Studies in Cinema and Media Practice

Hours: 24L/24P

This course uses research creation, critical making, digital humanities, videographic criticism, or other practice-based methods to the humanistic study of cinema and moving-image media. Students will pursue substantial research projects grounded in these approaches. Topics and methods vary by semester and instructor.

Prerequisite: CIN105Y1, CIN201Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN366H1 - Durable Empires and Medias of Mass Culture

Hours: 24L/24P

Taking a deliberately broad view of “empire” to include formations of power under colonialism, nationalism, neoliberalism, and more, we seek to understand how visible and invisible structures of power define our world through cinematic and mediated forms. In particular, we are interested in how hegemony (and resistance) articulates with medias of mass culture. How do mass media such as cinema, television, the internet, and big data represent, disseminate, intercept, and/or resist imperial formations?

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN369H1 - Critical Writing on Film

Hours: 48L

The practice of film criticism: studies of examples of journalistic and scholarly critical writing, practical sessions of process writing, and collaborative editing. Course includes regular film screenings. This course is offered biannually.

Prospective students must submit an application form that will be found at [Cinema Studies Institute Undergraduate Forms](#) and provide a brief (one to two paragraphs) explanation of why they would like to take CIN369H1 to the Cinema Studies Undergraduate Office by email to cinema.studies@utoronto.ca by April 30. The course instructor and/or Undergraduate Coordinator will assess the applications to determine student eligibility to enrol in the course: prerequisites, program of study, and

experience. Enrolment priority will be given to upper year Cinema Studies program students.

Prerequisite: CIN105Y1 and 1.0 additional CIN credit

Exclusion: ENGB71H3

Breadth Requirements: Creative and Cultural Representations (1)

CIN370H1 - Canadian Cinemas

Hours: 24L/24P

History and diversity of Canadian and Québécois cinemas. Analyses of film and critical frameworks examine how co-productions, multiculturalism, and post-national arguments are re-shaping the production and reception contexts of national cinema. Annual emphasis will be placed on one of the following topics: the emergence of the feature film, Québécois cinema, documentary, or experimental cinema.

Prerequisite: CIN105Y1

Exclusion: FCS391H1

Breadth Requirements: Creative and Cultural Representations (1)

CIN371H1 - (New) Media Aesthetics

Hours: 48L

Investigates the theory and history of media technologies as sites of aesthetic investment in a wide variety of artistic practices, focusing on contemporary digital media work, including experimental cinema, gallery installation, net.art, and avant-garde videogames. One important emphasis lies in the aesthetic possibilities new (and newly inexpensive) media technologies have made available to marginalized artists, including especially women and queer artists. We will study the work of Maya Deren, John Cage, Tony Conrad, Yoko Ono, Jack Smith, Andy Warhol, Michael Snow, Marina Abramovic, Marlon Riggs, Felix Gonzales-Torres, Anna Anthropy, and others.

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN372Y1 - Contemporary World Cinema

Hours: 48L/72P

Major contemporary developments beyond Hollywood and European filmmaking, examining a select number of national/regional cinemas: Africa, Korea, Iran, India (Hindi

cinema), and Latin America. Topics include: transnationalism, indigenization of generic and stylistic conventions, cultural contexts, distribution networks, film festivals, and reception within a global economy.

Prerequisite: CIN105Y1

Exclusion: ENGC83H3

Recommended Preparation: CIN201Y1

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

CIN374Y1 - American Filmmaking in the Studio Era

Hours: 24L/24T/72P

Industrial, economic, ideological, and aesthetic dimensions of the American studio era.

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

CIN376Y0 - Chinese Cinemas

Examination of Chinese films in their three post-World War II production centres: The People's Republic of China, Taiwan, and Hong Kong. Includes study of Shanghai films of the 1930s and 1940s. Commercial, political, and aesthetic trends; international reception; major *auteurs* and genres (including melodrama, wuxia pian and crime films). Directors include Tsui Hark, Chen Kaige, Zang Yimou, John Woo, Wong Kar-Wai, Hou Hsiao-hsien, and Feng Xiaogang.

This course is offered through the Summer Abroad program.

Prerequisite: CIN105Y1

Exclusion: CIN376Y1

Recommended Preparation: CIN201Y1

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

CIN376Y1 - Chinese Cinemas

Hours: 48L/72P

Examination of Chinese films in their three post-World War II production centres: The People's Republic of China, Taiwan, and Hong Kong. Commercial, political, and aesthetic trends; international reception; major *auteurs* and genres. Directors include Tsui Hark, Chen Kaige, Zang Yimou, Edward Yang, John Woo, and Wong Kar-Wai.

Prerequisite: CIN105Y1

Exclusion: CIN376Y0

Recommended Preparation: CIN201Y1

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

CIN378H1 - Aspects of a National Cinema

Hours: 24L/24P

In-depth treatment of a national cinema. Past courses include: "British Cinema," "Australian and New Zealand Cinema," and "The Other Europe."

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN378Y0 - Aspects of a National Cinema

This course offers a critical study of British film cultures, with an emphasis on British film genres, movements and cycles from the 1960s to the present day. Earlier representative works, to include the British documentary movement, will provide a foundation for a comparative study of contemporary British cinema. Major and minor film cultures will be studied in their institutional, social, and cultural contexts to include: the long standing tradition of British realism; the Free Cinema Movement; the "New Wave;" "Swinging London;" "Thatcherite" cinema, including its heritage, art cinema, Brit-grit and Black British iterations; in addition to the recent "lad boy" underclass cycle that reconfigures the traditional conceptualization of British cinema as strictly oppositional "realism or tinsel." Debates pertinent to the way in which British films and relate to a shifting sense of national identity, towards examining the "Englishness" of British national cinema, will be highlighted.

This course is offered through the Summer Abroad program.

Breadth Requirements: Creative and Cultural Representations (1)

CIN379H1 - Hungarian Cinema

Hours: 24L/24P

Examines historical trends, influential filmmakers, and social and cultural factors influencing the development of Hungarian cinema, assessing its impact within the context of Eastern Europe and internationally.

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN380H1 - Special Topics in History and Nation

Hours: 24P/24S

Courses in special topics designed for Specialists and Majors in Cinema Studies.

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN381H1 - Special Topics in History and Nation II

Hours: 24L/24P

Courses in special topics designed for Specialists and Majors in Cinema Studies.

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN381Y1 - Special Topics in History and Nation

Hours: 48P/48S

Courses in special topics designed for Specialists and Majors in Cinema Studies.

Prerequisite: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN410H1 - Advanced Study in Genre and Modes

Hours: 24P/24S

Consideration of the status of a selected film genre or mode from historical and theoretical perspectives. Past seminars include: "Film Comedy," "Melodrama," "Film Noir," "The End in Cinema," and "The Musical."

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before

the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN411H1 - Advanced Study in Genre and Modes

Hours: 24P/24S

Consideration of the status of a selected film genre or mode from historical and theoretical perspectives. Past seminars include: "Film Comedy," "Melodrama," "Film Noir," "The End in Cinema," and "The Musical."

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN412H1 - Advanced Study in Genre and Modes

Hours: 24P/24S

Consideration of the status of a selected film genre or mode from historical and theoretical perspectives. Past seminars include: "Film Comedy," "Melodrama," "Film Noir," "The End in Cinema," and "The Musical."

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN420H1 - Advanced Studies in Cinema

Hours: 24P/24S

Seminars in special topics designed for advanced Specialist and Major students in Cinema Studies.

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN430H1 - Advanced Study in Cinema as Social and Cultural Practice

Hours: 24P/24S

Consideration of cinema and its social relations. Past seminars include: "American Independent Film," "Children in the Movies," "Sub-Saharan African Cinema," "International Film Festivals," "Interactive Documentary," "Graphic!," "The Revolution Will/Will Not Be Televised," "Social Problem Films," and "Programming and Curation."

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN431H1 - Advanced Study in Cinema as Social and Cultural Practice

Hours: 24P/24S

Consideration of cinema and its social relations. Past seminars include: "American Independent Film," "Children

in the Movies," "Sub-Saharan African Cinema," "International Film Festivals," "Interactive Documentary," "Graphic!," "The Revolution Will/Will Not Be Televised," "Social Problem Films," and "Programming and Curation."

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN432H1 - Advanced Study in Cinema as Social and Cultural Practice

Hours: 24P/24S

Consideration of cinema and its social relations. Past seminars include: "American Independent Film," "Children in the Movies," "Sub-Saharan African Cinema," "International Film Festivals," "Interactive Documentary," "Graphic!," "The Revolution Will/Will Not Be Televised," "Social Problem Films," and "Programming and Curation."

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN433Y1 - Sensory Ecologies: Theory and Praxis in Environmental Media Studies

Hours: 48P/48S

Practitioners of environmental filmmaking struggle with a fundamental challenge: how to represent the dimensionality, and immersivity of the so-called natural world within the flat space and linear temporalities of the cinematic medium. These challenges resonate with larger questions about loss, extinction, and degradation; one cannot capture what is now disappeared, elusive, or

destroyed. What then, should the role of media be amid a period of environmental ruination? This experiential learning course seeks to investigate these questions, and more. Through a combination of praxis and theory, students will collaborate with community partners on a series of applied learning outcomes.

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Recommended Preparation: As media making is a component of this course, basic skills in media production (e.g. basic shooting with a camera/smartphone and editing) is a prerequisite. Classes will sometimes be conducted off campus so students should be flexible and able to travel.

Breadth Requirements: Creative and Cultural Representations (1)

CIN440H1 - Advanced Studies in Cinema

Hours: 24P/24S

Seminars in special topics designed for advanced Specialist and Major students in Cinema Studies. Past seminars include: "Experiential Learning."

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN450H1 - Advanced Study in Theory and Criticism

Hours: 24P/24S

Advanced study of select approaches to film theory and criticism. Past seminars include: "Corporeality and the Cinema," "The Cinematic City: Urban Spaces in Film," "Sound and Music in Film," "Expanded Cinema," "Digital

Cinema," and "Cinema and Architecture: Scenes, Screens, Studios."

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN451H1 - Advanced Study in Theory and Criticism

Hours: 24P/24S

Advanced study of select approaches to film theory and criticism. Past seminars include: "Corporeality and the Cinema," "The Cinematic City: Urban Spaces in Film," "Sound and Music in Film," "Expanded Cinema," "Digital Cinema," and "Cinema and Architecture: Scenes, Screens, Studios."

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN452H1 - Advanced Study in Theory and Criticism

Hours: 24P/24S

Advanced study of select approaches to film theory and criticism. Past seminars include: "Corporeality and the Cinema," "The Cinematic City: Urban Spaces in Film," "Sound and Music in Film," "Expanded Cinema," "Digital Cinema," and "Cinema and Architecture: Scenes, Screens, Studios."

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on

balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN460H1 - Advanced Studies in Cinema

Hours: 24P/24S

Seminars in special topics designed for advanced Specialist and Major students in Cinema Studies.

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN461H1 - Advanced Study in Cinema and Media Practice

Hours: 24L/24P

This seminar uses research creation, critical making, digital humanities, videographic criticism, or other practice-based methods to the humanistic study of cinema and moving-image media, at an advanced level. Students will pursue advanced research projects grounded in these approaches. Topics and methods vary by semester and instructor. This seminar is designed for advanced Specialist and Major students in Cinema Studies, but it does not presume prior practice-based knowledge.

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in the [Cinema Studies Undergraduate Forms](#).

Prerequisite: 10.0 credits, including [CIN105Y1](#) and [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN470H1 - Advanced Study in History and Nation

Hours: 24P/24S

Seminars in historiography and questions of national cinema. Past seminars include: "Film Historiography," "Early Cinema," "Reviewing Hollywood Classicism," "Women Pioneers," "Local Film Cultures: Toronto Sites and Scenes," and "Debating Transnational Cinema."

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN471H1 - Advanced Study in History and Nation

Hours: 24P/24S

Seminars in historiography and questions of national cinema. Past seminars include: "Film Historiography," "Early Cinema," "Reviewing Hollywood Classicism," "Women Pioneers," "Local Film Cultures: Toronto Sites and Scenes," and "Debating Transnational Cinema."

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN472H1 - Advanced Study in History and Nation

Hours: 24P/24S

Seminars in historiography and questions of national cinema. Past seminars include: "Film Historiography," "Early Cinema," "Reviewing Hollywood Classicism," "Women Pioneers," "Local Film Cultures: Toronto Sites and Scenes," and "Debating Transnational Cinema."

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN480H1 - Advanced Studies in Cinema

Hours: 24P/24S

Seminars in special topics designed for advanced Specialist and Major students in Cinema Studies.

Pre-enrolment balloting for 400-Level seminars will start in late May to early June, opening roughly five weeks before the July enrolment period begins. More information on balloting procedures, the balloting form and the submission deadline can be found in [Cinema Studies Undergraduate Forms](#).

Prerequisite: At least 10.0 credits, including [CIN105Y1](#), [CIN201Y1](#)

Corequisite: [CIN301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CIN490Y1 - Independent Studies in Cinema

Independent research projects devised by students and supervised by Cinema Studies faculty. Open to advanced Specialist and Major students in the Program. Submit applications to the Cinema Studies Undergraduate Office prior to requesting enrolment: Fall term courses, June 1/ Winter term courses, November 1/ Summer term courses, April 1. Not eligible for CR/NCR option.

Prerequisite: At least 10.0 credits, including CIN105Y1, CIN201Y1, CIN301Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN491H1 - Independent Studies in Cinema

Independent research projects devised by students and supervised by Cinema Studies faculty. Open to advanced Specialist and Major students in the Program. Submit applications to the Cinema Studies Undergraduate Office prior to requesting enrolment: Fall term courses, June 1/ Winter term courses, November 1/ Summer term courses, April 1. Not eligible for CR/NCR option.

Prerequisite: At least 10.0 credits, including CIN105Y1, CIN201Y1, CIN301Y1

Breadth Requirements: Creative and Cultural Representations (1)

CIN492H1 - Independent Studies in Cinema

Independent research projects devised by students and supervised by Cinema Studies faculty. Open to advanced Specialist and Major students in the Program. Submit applications to the Cinema Studies Undergraduate Office prior to requesting enrolment: Fall term courses, June 1/ Winter term courses, November 1/ Summer term courses, April 1. Not eligible for CR/NCR option.

Prerequisite: At least 10.0 credits, including CIN105Y1, CIN201Y1, CIN301Y1

Breadth Requirements: Creative and Cultural Representations (1)

Classics

Faculty List

University Professors Emeriti

B.C. Inwood, MA, PhD, FRSC
E.J. Weinrib, AM, PhD, FRSC

Professors Emeriti

T.D. Barnes, MA, D Phil, FRSC
R.L. Beck, AM, PhD (University of Toronto Mississauga)
J.N. Grant, MA, PhD
C.J. McDonough, MA, PhD
J.M. Rist, MA, FRSC
T.M. Robinson, B Litt, D Litt
J.S. Traill, AM, PhD

Associate Professors Emeriti

H.J. Mason, AM, PhD
C.I. Rubincam, BA, PhD (University of Toronto Mississauga)

Professor and Chair of the Department

G.R. Boys-Stones, MA, Litt D

Associate Professor, Undergraduate Coordinator, and Associate Chair

K. Wilkinson, PhD

Associate Professor, Graduate Coordinator, and Associate Chair

B.W. Akrigg, MA, PhD

Professors

R. Barney, Canada Research Chair, PhD
G.R. Boys-Stones, MA, Litt D
C.F.M. Bruun, MA, PhD
J. Burgess, MA, D Phil
M.J. Dewar, MA, D Phil
E. Gunderson, MA, PhD
A.M. Keith, MA, PhD, FRSC
J.C. Magee, MA, PhD
M. Revermann, MA, D Phil (University of Toronto Mississauga)
V. Wohl, MA, PhD

Associate Professors

B.W. Akrigg, MA, PhD
S. Bernard, PhD
A. E. Bendlin, MA, D Phil (University of Toronto Mississauga)
K. Blouin, MA, PhD (University of Toronto Scarborough)
B. Chrubasik, D Phil (University of Toronto Mississauga)
E. Lytle, PhD

S. Murray, PhD
J. Welsh, MA, PhD
K. Wilkinson, PhD

Assistant Professors

C. Atkins, PhD (University of Toronto Mississauga)
K.W. Yu, MA, PhD

Introduction

Classics is the study of the civilizations of ancient Greece and Rome. This includes their literature, religion, mythology, history, philosophy and art, and also their physical settings, their interactions with surrounding societies, and their influence on later cultures to the present day. The scope of the discipline is vast both in space (not just the territories of the modern states of Greece and Italy but most of western Europe, the Middle East and North Africa) and time (a period of at least two thousand years, from the start of the Bronze Age in Europe in the second millennium B.C. to the dawn of the Middle Ages). Classics at the University of Toronto is not just looking at the past but engaging with issues of compelling and enduring relevance, including: gender and sexuality; the nature of freedom and the basis of political power and legitimacy; how relationships should and do work between parents and children; whether democracy is compatible with imperialism; what it means to be in love; how people cope with the fear of death; and when, if ever, it is right to go to war.

The Department of Classics welcomes students of all academic backgrounds who wish to take courses in the field but do not wish to specialize in Classical Studies. Even without knowing Greek or Latin, students can profitably study Greek and Roman history or Greek and Latin literature in translation - two areas combined under the designation CLA (for Classical Civilization courses) below. Similarly, the Major and Minor Programs in Classical Civilization presuppose no knowledge of the classical languages.

Advanced work in Greek and Latin does require study of the basic language courses in sequence. These are listed below under the designations GRK (for Greek courses) and LAT (for Latin courses). The Department of Classics publishes an undergraduate handbook which may be obtained from the departmental office and is published on the internet; this and other information about the Department is available at:

Website: <https://classics.utoronto.ca/>

Undergraduate Coordinator: Professor Kevin Wilkinson

125 Queens Park, room LI114
(undergrad.classics@utoronto.ca; 416-978-7174)

Enquiries: 125 Queens Park, room 108 (416-978-5513)

Classics Programs

Classical Civilization Major (Arts Program) - ASMAJ0382

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

There are no specific requirements for first year. Students are recommended to take [CLA160H1](#)/ [CLA170H1](#) and at least one other CLA course at the 200-level.

(7.0 credits)

1. [CLA160H1](#)/ [CLA170H1](#)
2. [CLA260H1](#)
3. [CLA402H1](#)/ [CLA403H1](#)
4. Additional 5.5 credits in CLA, including 2.0 credits at the 300+-level

Substitutions:

1. Up to 3.0 credits from approved courses involving the ancient Greek and Roman civilizations taught by other departments, notably Art History and Philosophy, may be substituted for the 5.5 credits in CLA courses from Requirement 4.

Art History:

[FAH206H1](#), [FAH207H1](#), [FAH208H1](#), [FAH303H1](#),
[FAH304H1](#), [FAH307H1](#), [FAH308H1](#), [FAH309H1](#),
[FAH310H1](#), [FAH311H1](#), [FAH312H1](#), [FAH313H1](#),
[FAH314H1](#), [FAH401H1](#), [FAH402H1](#), [FAH405H1](#),
[FAH406H1](#), [FAH407H1](#)

Philosophy:

[PHL200Y1](#), [PHL301H1](#), [PHL302H1](#), [PHL303H1](#),
[PHL304H1](#), [PHL307H1](#), [PHL400H1](#), [PHL471H1](#)

2. Up to 2.0 credits in GRK or LAT may be substituted for the 5.5 credits in CLA courses from Requirement 4.

Classics (Greek and Latin) Major (Arts Program) - ASMAJ0962

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

There are no specific requirements for first year. Students are recommended to take [CLA160H1](#) or [CLA170H1](#), and in addition [GRK101H1](#) and [GRK102H1](#), and/or [LAT101H1](#) and [LAT102H1](#).

(7.0 credits)

1. [CLA160H1](#)/ [CLA170H1](#), [CLA260H1](#)
2. 6.0 credits of GRK/LAT courses, including:

- at least 2.0 credits in each of GRK and LAT
- at least 1.0 credit at the 400-level in either GRK or LAT

Greek Major (Arts Program) - ASMAJ2123

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

There are no specific requirements for first year. Students are recommended to take [CLA160H1](#)/ [CLA170H1](#), [GRK101H1](#) and [GRK102H1](#).

(6.0 credits)

1. [CLA160H1](#)/ [CLA170H1](#), [CLA260H1](#)
2. 4.0 credits from GRK courses, of which 1.0 credit must be at the 300-level and 1.0 credit at the 400-level
3. Additional 1.0 credit from CLA/GRK/LAT

Latin Major (Arts Program) - ASMAJ1451

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

There are no specific requirements for first year. Students are recommended to take [CLA160H1](#)/ [CLA170H1](#), [LAT101H1](#) and [LAT102H1](#).

(6.0 credits)

1. [CLA160H1](#)/ [CLA170H1](#), [CLA260H1](#)
2. 4.0 credits from LAT courses, of which 1.0 credit must be at the 300-level and 1.0 credit at the 400-level
3. Additional 1.0 credit from CLA/GRK/LAT

Classical Civilization Minor (Arts Program) - ASMIN0382

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

There are no specific requirements for first year. Students are recommended to take [CLA160H1](#)/ [CLA170H1](#) and one other CLA course at the 200-level.

(4.0 credits)

1. [CLA160H1](#)/ [CLA170H1](#)
2. 3.5 credits in CLA courses at the 200+ level, including 1.0 credit at the 300+ level

Substitutions:

1. Up to 2.0 credits from approved courses involving the ancient Greek and Roman civilizations taught by other departments, notably Art History and Philosophy, may be substituted for the 3.5 credits in CLA courses from Requirement 2.

Art History:

[FAH206H1](#), [FAH207H1](#), [FAH208H1](#), [FAH303H1](#), [FAH304H1](#), [FAH307H1](#), [FAH308H1](#), [FAH309H1](#), [FAH310H1](#), [FAH311H1](#), [FAH312H1](#), [FAH313H1](#), [FAH314H1](#), [FAH401H1](#), [FAH402H1](#), [FAH405H1](#), [FAH406H1](#), [FAH407H1](#)

Philosophy:

[PHL200Y1](#), [PHL301H1](#), [PHL302H1](#), [PHL303H1](#), [PHL304H1](#), [PHL307H1](#), [PHL400H1](#), [PHL471H1](#)

2. Up to 1.0 credit in GRK or LAT may be substituted for the 3.5 credits in CLA courses from Requirement 2.

Greek Minor (Arts Program) - ASMIN2123

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

There are no specific requirements for first year. Students are recommended to take [CLA160H1](#)/ [CLA170H1](#), [GRK101H1](#) and [GRK102H1](#).

(4.0 credits)

1. 1.0 credit from CLA courses, including [CLA160H1](#)/ [CLA170H1](#)
2. 3.0 credits from GRK courses, of which 1.0 credit must be at the 300-level

Latin Minor (Arts Program) - ASMIN1451

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

There are no specific requirements for first year. Students are recommended to take [CLA160H1](#)/ [CLA170H1](#), [LAT101H1](#) and [LAT102H1](#).

(4.0 credits)

1. 1.0 credit from CLA courses, including [CLA160H1](#)/ [CLA170H1](#)
2. 3.0 credits from LAT courses, of which 1.0 credit must be at the 300-level

Faculty of Arts & Science Language Citation

The Department of Classics participates in the Faculty of Arts and Science's Language Citation initiative for Ancient Greek and Latin. The study of Ancient Greek and Latin is a demanding and intellectually rewarding educational experience which makes available to the modern student the rich resources of classical texts in the original

languages. Successful study of these languages demonstrates intelligence, discipline, analytical sophistication, and an excellent memory. The study of any foreign language provides invaluable insights into the varieties of human culture and expression.

In each language the Language Citation recognizes a significant level of achievement in language study with a high level of academic success.

The Citation in Latin is available to students who complete LAT101H1 and LAT102H1 (or the equivalent prerequisite training) and earn a grade of at least B- in LAT201H1, LAT202H1 and any two LAT 0.5 credit courses at the 300-level.

The Citation in Ancient Greek is available to students who complete GRK101H1 and GRK102H1 (or the equivalent prerequisite training) and earn a grade of at least B- in GRK201H1, GRK202H1 and any two GRK 0.5 credit courses at the 300-level.

Students should note that, as explained in the About Programs of Study section of this Calendar, the Language Citation is not equivalent to an academic program and that enrolment in a program is not necessary in order to earn the recognition bestowed by the Citation.

Regarding Classics Courses

Note: CLA courses are taught in English; all readings are in English. CLA courses do not require knowledge of Greek or Latin.

300-Level Courses

Most 300-level courses have specific prerequisites, which are enforced. Students seeking exemptions from these prerequisites should contact the undergraduate coordinator before attempting to enroll in them on ACORN.

Students enrolled in the Major and Minor Programs in Classical Civilization have priority access to these courses.

300-level 0.5 credit courses: only 8 to 10 are offered in a typical Fall-Winter Session.

Greek Courses

These courses teach reading in ancient Greek. Prerequisites will be enforced. GRK101H1 requires no prior knowledge in ancient Greek. Courses in Greek taught by the Department of Classics involve the study of the form of the language employed in antiquity from about 800 B.C.E. to 400 C.E. The Department of Classics does not offer instruction in Medieval or Modern Greek.

Frequency of Offering: In each fall-winter session, GRK430H1 will be offered and a minimum of 1.5 credits (three 0.5 credit courses) in each of the GRK 300 and 400-level. In odd-numbered years the courses offered in the 300 and 400-level will normally be drawn from those with odd numbers, and in even-numbered years from those with even numbers.

Courses numbered GRK440H1 to GRK453H1 are advanced versions of the courses with the same titles at the 300-level (GRK340H1 - GRK353H1). They differ from the 300-level versions in meeting for an extra hour, studying more texts, and including a component of integrative, inquiry-based research.

Latin Courses

These courses teach reading in Latin. Prerequisites will be enforced. LAT101H1 requires no prior knowledge of Latin.

Frequency of Offering: In each fall-winter session, LAT430H1 will be offered and a minimum of 1.5 credits (three 0.5 credit courses) in each of the LAT 300 and 400-level. In odd-numbered years the courses offered in the 300 and 400-level will normally be drawn from those with odd numbers, and in even-numbered years from those with even numbers.

Courses numbered LAT440H1 to LAT453H1 are advanced versions of the courses with the same titles at the 300-level (LAT340H1 - LAT353H1). They differ from the 300-level versions in meeting for an extra hour, studying more texts, and including a component of integrative, inquiry-based research.

Classics Courses

Classics First-Year Foundations

CLA195H1 - Julius Caesar

Hours: 24S

Gaius Julius Caesar (100 – 44 BC) was a writer, an orator, a reformer, and a builder, as well as a general, a conqueror, an explorer, and a dictator. After his death, he was even worshipped as a god with a temple in the very heart of Rome. According to his critics, both ancient and modern, he was also a megalomaniac, an enemy of the state, a war criminal, and a tyrant. Only a very few individuals have left such an extensive and controversial mark on the history of the ancient world. We shall consider as many aspects of his life and his legacy as we can, from his conquest of Gaul to his decision to plunge Rome into a horrific civil war, from his love-affair with Queen Cleopatra of Egypt to his brutal assassination on the Ides of March. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CLA196H1 - Greco-Roman Instructions for Creative Composition

Hours: 24S

Education in Greco-Roman antiquity principally trained students to be public speakers. In the course of this instruction techniques for storytelling were imparted. What are the components of a narration? How does one build a compelling plot for a narrative? How can one suggest things that go beyond what one actually says? We will look at some of the instructional materials themselves. Then we will examine a variety of writings from the ancient world to see how the instructions are (or are not) put into practice. These writings will include public speeches, poems, and more. We will also examine more modern works and think about how the ancient advice might be used to critique, expand or reshape it. And, finally, students will try to put some of the ancient advice into concrete practice by making their own creative compositions. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CLA197H1 - Inventing the Ancient Mediterranean: Roman Technology

Hours: 24S

Two thousand years ago Roman hydraulic engineers designed aqueducts and provided hundreds of cities in the Mediterranean region with a richer water supply than any nation could boast before the late 1800s. Ever more sophisticated ships transported goods from harbour to harbour and Roman experts on construction built the Colosseum and other amphitheatres, as well as countless temples, theatres, roads, bridges, and even high-rise apartment buildings, which in some cases survive to this very day. What was the secret of Roman civilization, and what did this level of technology mean for the empire's inhabitants? This course presents for discussion the many achievements of centuries of Roman presence on three continents around the Mediterranean Sea, while bringing into the equation also the issue of standard of living and the ecological costs. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

CLA198H1 - Homer's Odyssey down through Time

Hours: 24S

This course will survey creative works inspired by Homer's *Odyssey*. First we will read through the *Odyssey*, contextualizing the Homeric epic within the larger story of the Trojan War and the subsequent heroic return in the "Epic Cycle." Then we will study various "receptions" of the *Odyssey*, ancient and modern. Ancient works will include the satyr play *Cyclops* by Euripides and portrayals of a love-sick Cyclops in Theocritus and Ovid. In *True Story* Lucian calls Odysseus a liar but rivals his travel tale with episodes placed on the moon and inside a whale. Modern works include Atwood's *Penelopiad*, Walcott's stage version of the *Odyssey*, and the film "O Brother, Where Art Thou?" Themes will include travel literature, truth and lying, localization of the wanderings of Odysseus, culture clash, and the definition of home. All this material, various in date, media, and fidelity to their Homeric source, will provide us with a well-rounded sense of how the *Odyssey* has been re-imagined over the ages. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CLA199H1 - The “Decline and Fall” of the Roman Empire

Hours: 24S

After a high water mark of territorial reach and economic success in the middle of the 2nd century CE, the Roman Empire eventually disintegrated. How? Why? When? In this course, we will consider some of the historical features that may have contributed to its political collapse, and we will consider some modern scholarly analyses from Edward Gibbon (late 18th century) to the present. But we will also investigate “decline and fall” as a narrative trope. Why is this story arc always with us? Who decides what qualifies as “decline”? Is the “fall” of some systems necessarily a bad thing? Among the topics to be considered in the context of the Later Roman Empire are several of relevance in the modern world, not least: climate change, disease, human migration, religious difference, and economic inequality. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

Classics

CLA160H1 - Introduction to Classical Studies

Hours: 36L/10T

An introduction to major themes in the development of Greek and Roman civilization, literature and culture.

Breadth Requirements: Creative and Cultural Representations (1)

CLA170H1 - Ancient Texts, Modern Worlds

Hours: 36L

An introduction to Greek and Latin literature and culture which highlights the theoretical issues involved in the translation and reception of ancient texts. It introduces key works of literature, questions what it means to talk about an “original” text, asks what makes for an “accurate” translation, and sharpens awareness of linguistic issues even for students without Latin and Greek.

Breadth Requirements: Creative and Cultural Representations (1)

CLA201H1 - Latin & Greek in Scientific Terminology

Hours: 36L

The study of technical and scientific terms derived from Latin and Greek: word elements, formation, analysis. The course is designed to give students in any field of specialization a better grasp of the derivation and basic meaning of English words derived from Latin and Greek elements.

Breadth Requirements: Thought, Belief and Behaviour (2)

CLA203H1 - Science in Antiquity

Hours: 36L

The first scientific traditions in the classical Mediterranean and the Near East, with emphasis on Greek science. Discussions of early physical science, biology, mathematics, and astronomy, and their place in ancient life and thought, based on primary sources in translation. Designed for students in both the sciences and humanities.

Breadth Requirements: Thought, Belief and Behaviour (2)

CLA204H1 - Introduction to Classical Mythology

Hours: 36L

A survey of the myths and legends of ancient Greece (and their extension to Rome) with some consideration of their role in ancient and modern literature and art.

Breadth Requirements: Thought, Belief and Behaviour (2)

CLA208H1 - Socrates and His World

Hours: 36L

Already in antiquity, Socrates was viewed as a watershed in philosophical history, and a reference-point for everything that came after him. This course explores the evidence for his beliefs and methods and the context in which he lived and worked, and it introduces a lively circle of interlocutors and pupils going far beyond the most famous, Plato and Xenophon.

Breadth Requirements: Thought, Belief and Behaviour (2)

CLA209H1 - Magic, Religion, and Science

Hours: 36L

A study of the overlapping and contested categories of “magic”, “religion”, and “science” in ancient Greek and Roman thought and practice.

Breadth Requirements: Thought, Belief and Behaviour (2)

CLA210H1 - Greek and Roman Archaeology

Hours: 36L

A survey of the practices and theory of archaeology in the Classical Mediterranean, from the Greek Bronze Age through the Roman Empire. This course introduces students to the archaeological record of the Greco-Roman past, as well as the means by which we access it. Students will develop essential skills to recognize and analyze ancient material culture in preparation for upper level classes, or for fieldwork. No previous knowledge of the discipline is required.

Breadth Requirements: Society and its Institutions (3)

CLA215H1 - Classical Warfare

Hours: 36L

An introduction to the military history of ancient Greece and Rome from the 8th century BCE to the 7th century CE, with an emphasis on the political, social and economic implications of warfare and military institutions.

Breadth Requirements: Society and its Institutions (3)

CLA217H1 - Marginal Identities in the Ancient Mediterranean

Hours: 36L

An exploration of the groups and individuals who could be considered “marginal” in Greek and Roman antiquity. Includes discussion of ancient ideas about race, ethnicity,

social status, economic class, gender, sexuality, and disability.

Prerequisite: 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

CLA219H1 - Women in Antiquity

Hours: 36L

A survey of the position of women in ancient Greece and Rome, with focus on women's sexuality and socialization; their economic, religious, and political roles; and their creative production in the arts.

Breadth Requirements: Society and its Institutions (3)

CLA222H1 - Sex, Death, and Poetry

Hours: 36L

A study of the themes of sex and death and the connection between them in the poetry of ancient Greece and Rome. Readings will be drawn from Greek and Roman lyric, epic, tragedy, and other genres.

Breadth Requirements: Creative and Cultural Representations (1)

CLA223H1 - Literature and Empire

Hours: 36L

A study of the relation between literature and empire in ancient Greece and Rome. The course covers a variety of genres and historical moments, examining how literature can support or challenge imperial power.

Breadth Requirements: Creative and Cultural Representations (1)

CLA224H1 - Letters from the Past

Hours: 36L

A study of letters and letter writing in Greek and Roman Antiquity. Students will be introduced to ancient theories of epistolography and a wide variety of texts, including letters by famous historical figures, philosophical letters, poetic letters, and fictional letters in prose.

Breadth Requirements: Creative and Cultural Representations (1)

CLA230H1 - Introduction to Greek History

Hours: 36L

A historical survey of the most significant features in the development of the civilization and states of ancient Greece from the Bronze Age to the second century B.C.E.

Breadth Requirements: Society and its Institutions (3)

CLA231H1 - Introduction to Roman History

Hours: 36L

A historical survey of the most significant features in the development of the civilization and state of ancient Rome from the mythical beginnings to the fourth century C.E.

Breadth Requirements: Society and its Institutions (3)

CLA236H1 - Greek and Roman Epic

Hours: 36L

A study of one or more of the epic poems of Greek and Roman antiquity (e. g. The *Iliad* and *Odyssey* of Homer and the *Aeneid* of Virgil).

Breadth Requirements: Creative and Cultural Representations (1)

CLA260H1 - Method and Theory in Classics

Hours: 36L

An introduction to key issues in methodology and theory in the study of the classical world.

CLA299H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

CLA299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

CLA303H1 - The Ancient Novel

Hours: 36S

An introduction to the Greek romances of love and adventure (Chariton, Longus, Heliodorus), and the more ironical and socially conscious works of the Roman writers Petronius and Apuleius.

Prerequisite: [CLA160H1](#)/ [CLA170H1](#), [CLA204H1](#)/ [CLA219H1](#)/ [CLA222H1](#)/ [CLA223H1](#)/ [CLA224H1](#)/ [CLA232H1](#)/ [CLA233H1](#)/ [CLA236H1](#)/ [CLA260H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CLA305H1 - Theories of Myth

Hours: 36S

A detailed study of the major modern approaches to the analysis and interpretation of myth with specific reference to their applications to ancient Graeco-Roman myth.

Prerequisite: [CLA204H1](#), [CLA160H1](#)/ [CLA170H1](#)/ [CLA260H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

CLA308H1 - Religion in the Greek World

Hours: 36S

A study of the religious cults and forms of worship in the ancient Greek world.

Prerequisite: [CLA160H1](#)/ [CLA170H1](#), [CLA204H1](#)/ [CLA208H1](#)/ [CLA209H1](#)/ [CLA210H1](#)/ [CLA222H1](#)/ [CLA223H1](#)/ [CLA224H1](#)/ [CLA230H1](#)/ [CLA232H1](#)

CLA236H1/ CLA260H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CLA310H1 - Religion in the Roman World

Hours: 36S

A study of the religious cults and forms of worship in the Roman world, including the pagan cults, Judaism, and early Christianity.

Prerequisite: CLA160H1/ CLA170H1, CLA204H1/ CLA208H1/ CLA209H1/ CLA210H1/ CLA222H1/ CLA223H1/ CLA224H1/ CLA231H1/ CLA233H1/ CLA236H1/ CLA260H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CLA312H1 - Persons and Passions

Hours: 36L

Ancient Greek and Roman thought about the emotions and the relationship that individuals have, or ought to have, with them. Primary sources in translation drawn from ancient literary, medical and philosophical texts.

Prerequisite: CLA160H1/ CLA170H1, CLA208H1/ CLA209H1/ CLA222H1/ CLA223H1/ CLA224H1/ CLA230H1/ CLA231H1/ CLA232H1/ CLA233H1/ CLA260H1/ PHL200Y1

Breadth Requirements: Creative and Cultural Representations (1)

CLA314H1 - Slavery in the Ancient Mediterranean World

Hours: 36S

A study of slavery and slave systems in ancient Greek and Roman societies.

Prerequisite: CLA160H1/ CLA170H1, CLA210H1/ CLA215H1/ CLA217H1/ CLA219H1/ CLA230H1/ CLA231H1/ CLA260H1

Breadth Requirements: Society and its Institutions (3)

CLA315H1 - Insider-Outsiders: Being Greek in the Roman Empire

Hours: 36L

This course looks at Greek culture in the Roman imperial context. Topics include the Second Sophistic; the creation of canons and the idea of the "Classics"; alterity; the rise of Christianity; cultural loss and nostalgia; the fiction of Greece as a site of cultural capital and prestige. Authors including Pausanias, Philostratus, Plutarch, Aristides, Galen, and Lucian are read in translation.

Prerequisite: CLA160H1/ CLA170H1, CLA222H1/ CLA223H1/ CLA224H1/ CLA230H1/ CLA231H1/ CLA232H1/ CLA233H1/ CLA260H1

Breadth Requirements: Creative and Cultural Representations (1)

CLA317H1 - Greek and Roman Colonialism

Hours: 36L

An exploration of the motivations and consequences of colonial movements and foundations throughout classical antiquity, and the role of race and ethnicity in ancient structures of colonial power. Includes consideration of their influence on later colonial and imperial projects and reactions to them.

Prerequisite: CLA160H1/ CLA170H1, CLA217H1/ CLA230H1/ CLA231H1/ CLA232H1/ CLA233H1/ CLA260H1

Breadth Requirements: Society and its Institutions (3)

CLA319H1 - Sexuality and Gender in Classical Literature

Hours: 36S

Detailed study of the representation of sexuality and gender in Greek and/or Roman literary texts from one or more genres.

Prerequisite: CLA160H1/ CLA170H1, CLA219H1/ CLA222H1/ CLA223H1/ CLA224H1/ CLA232H1/ CLA233H1/ CLA260H1

Breadth Requirements: Creative and Cultural Representations (1)

CLA321H1 - Sport and Festival

Hours: 36S

An examination of various aspects of athletic competition in the ancient Greco-Roman world, employing literary and archaeological evidence.

Prerequisite: [CLA160H1/ CLA170H1, CLA210H1/ CLA222H1/ CLA223H1/ CLA224H1/ CLA230H1/ CLA231H1/ CLA232H1/ CLA233H1/ CLA236H1/ CLA260H1](#)

Breadth Requirements: Society and its Institutions (3)

CLA322H1 - Classical Reception

Hours: 36S

Modern reception of the classical world in a variety of media, such as art, literature, music, popular culture, etc.

Prerequisite: [CLA160H1/ CLA170H1, CLA204H1/ CLA219H1/ CLA222H1/ CLA223H1/ CLA224H1/ CLA230H1/ CLA231H1/ CLA232H1/ CLA233H1/ CLA236H1/ CLA260H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CLA323H1 - Ancient Philosophy and Literature

Hours: 36S

A study of some of the ways in which ancient Greek and Roman philosophy was itself a literary endeavour, and its relations to other kinds of ancient literature.

Prerequisite: [CLA160H1/ CLA170H1, CLA203H1/ CLA204H1/ CLA208H1/ CLA222H1/ CLA223H1/ CLA224H1/ CLA232H1/ CLA233H1/ CLA236H1/ CLA260H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CLA336H1 - Law in Ancient Greek and Roman Society

Hours: 36S

A study of legal sources and systems in ancient Greek and/or Roman states with particular attention to social and historical context.

Prerequisite: [CLA160H1/ CLA170H1, CLA210H1/ CLA215H1/ CLA219H1/ CLA230H1/ CLA231H1/ CLA260H1](#)

Breadth Requirements: Society and its Institutions (3)

CLA362H1 - Early Greece

Hours: 36S

The Greek world from the second millennium B.C.E. to the emergence of the *polis*

Prerequisite: [CLA160H1/ CLA170H1, CLA210H1/ CLA230H1/ CLA260H1](#)

Breadth Requirements: Society and its Institutions (3)

CLA363H1 - Archaic and Classical Greece

Hours: 36S

The Greek world from the eighth to the fourth centuries B.C.E., with an emphasis on political events and development.

Prerequisite: [CLA160H1/ CLA170H1, CLA210H1/ CLA230H1/ CLA260H1](#)

Breadth Requirements: Society and its Institutions (3)

CLA364H1 - The Hellenistic World

Hours: 36S

The Greek world in the age of Alexander the Great and his successors (336 B.C.E. to 31 B.C.E.)

Prerequisite: [CLA160H1/ CLA170H1, CLA210H1/ CLA230H1/ CLA260H1](#)

Breadth Requirements: Society and its Institutions (3)

CLA367H1 - The Roman Republic

Hours: 36S

The Roman world from 510 B.C.E. to 44 B.C.E.

Prerequisite: [CLA160H1/ CLA170H1, CLA210H1/ CLA231H1/ CLA260H1](#)

Breadth Requirements: Society and its Institutions (3)

CLA368H1 - Augustus and the Julio-Claudians

Hours: 36S

The Roman world in the age of Augustus and his dynasty (44 B.C.E. to 68 C.E.)

Prerequisite: [CLA160H1/ CLA170H1, CLA210H1/ CLA231H1/ CLA260H1](#)

Breadth Requirements: Society and its Institutions (3)

CLA369H1 - The Roman Empire

Hours: 36S

The Roman world from 68 C.E. to 378 C.E.

Prerequisite: CLA160H1/ CLA170H1, CLA210H1/ CLA231H1/ CLA260H1

Breadth Requirements: Society and its Institutions (3)

CLA372H1 - The Economic History of the Classical World

Hours: 36S

The structure and performance of economies in the Greek and/or Roman worlds, and their modern interpretation.

Prerequisite: CLA160H1/ CLA170H1, CLA210H1/ CLA230H1/ CLA231H1/ CLA260H1

Breadth Requirements: Society and its Institutions (3)

CLA373H1 - The Environment in the Greco-Roman World

Hours: 36S

An exploration of the ecology and environment of the ancient Mediterranean basin in classical antiquity.

Prerequisite: CLA160H1/ CLA170H1, CLA210H1/ CLA230H1/ CLA231H1/ CLA260H1

Breadth Requirements: Living Things and Their Environment (4)

CLA378H1 - Late Antiquity

Hours: 36S

The history and culture of the Greco-Roman world during the fourth through seventh centuries C.E., with particular emphasis on the decline of the Roman state and emergence of Christianity.

Prerequisite: CLA160H1/ CLA170H1, CLA210H1/ CLA231H1/ CLA260H1

Breadth Requirements: Society and its Institutions (3)

CLA382H1 - Tragedy

Hours: 36S

The study of classical tragedy as a literary genre, dramatic production, and social institution, with analysis of representative plays.

Prerequisite: CLA160H1/ CLA170H1, CLA204H1/ CLA219H1/ CLA222H1/ CLA223H1/ CLA224H1/ CLA230H1/ CLA232H1/ CLA236H1/ CLA260H1

Breadth Requirements: Creative and Cultural Representations (1)

CLA383H1 - Comedy

Hours: 36S

The origin and development of Greek and Roman comedy, based on a study of representative plays.

Prerequisite: CLA160H1/ CLA170H1, CLA219H1/ CLA222H1/ CLA223H1/ CLA224H1/ CLA230H1/ CLA231H1/ CLA232H1/ CLA233H1/ CLA236H1/ CLA260H1

Breadth Requirements: Creative and Cultural Representations (1)

CLA387H1 - Spectacle in the Roman World

Hours: 36S

The role in Roman society and culture of public spectacles, including the chariot-races, the gladiatorial games, executions, and triumphal processions.

Prerequisite: CLA160H1/ CLA170H1, CLA231H1/ CLA233H1/ CLA260H1

Breadth Requirements: Creative and Cultural Representations (1)

CLA388H1 - Classical Antiquity and the Cinema

Hours: 36S

A study of the representation of ancient Greece and/ or Rome in cinema.

Prerequisite: CLA160H1/ CLA170H1, (CLA219H1/ CLA222H1/ CLA223H1/ CLA224H1/ CLA232H1/ CLA233H1/ CLA260H1)/ CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

CLA389H1 - Classical Spaces: Sites and Monuments

Hours: 36S

A close study of one or more sites in the ancient world and the cultural significance of the site(s) in question.

Prerequisite: CLA160H1/ CLA170H1, CLA210H1/ CLA230H1/ CLA231H1/ CLA260H1

Breadth Requirements: Creative and Cultural Representations (1)

CLA392H1 - Topics in the study of Classical Culture and Society

Hours: 36S

Topics vary from year to year.

Prerequisite: CLA160H1, (CLA210H1/ CLA219H1/ CLA230H1/ CLA231H1/ CLA232H1/ CLA233H1/ CLA260H1)

Breadth Requirements: Creative and Cultural Representations (1)

CLA398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

CLA398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

CLA399H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

CLA399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

CLA400H1 - Independent Studies

Previous Course Number: CLA400Y1

Independent Studies. Not eligible for CR/NCR option.

Prerequisite: Permission of Department

Exclusion: CLA400Y1

Recommended Preparation: Preferably 1.0 CLA credit at the 300-level

CLA401H1 - Independent Studies

Independent Studies. Not eligible for CR/NCR option.

Prerequisite: Permission of Department

Recommended Preparation: Preferably 1.0 CLA credit at the 300-level

CLA402H1 - Advanced Seminar in Greek Civilization

Hours: 36S

An advanced research seminar devoted to critical issues relating to Greek civilization. Course requirements include a research essay. Topics vary from year to year.

Prerequisite: 14.0 credits, including 1.0 CLA credit at the 300-level

Exclusion: CLA403H1

CLA403H1 - Advanced Seminar in Roman Civilization

Hours: 36S

An advanced research seminar devoted to critical issues relating to Roman civilization. Course requirements include a research essay. Topics vary from year to year.

Prerequisite: 14.0 credits, including 1.0 CLA credit at the 300-level

Exclusion: CLA402H1

Greek

GRK101H1 - Introductory Ancient Greek I

Previous Course Number: GRK100Y1

Hours: 48S

An intensive introduction to Ancient Greek for students who have no knowledge of the language; preparation for the reading of Ancient Greek literature.

Exclusion: GRK100Y1. Students who have studied Ancient Greek previously must obtain permission from the Undergraduate Coordinator before enrolling.

Breadth Requirements: Creative and Cultural Representations (1)

GRK102H1 - Introductory Ancient Greek II

Hours: 48S

A continuation of the intensive introduction to Ancient Greek in GRK 101H1. Also appropriate for students who have some training in Ancient Greek, but have not completed a whole credit course at University or a final-year (Grade 12) course in secondary school.

Prerequisite: GRK101H1/some background in Ancient Greek

Exclusion: GRK100Y1

Breadth Requirements: Creative and Cultural Representations (1)

GRK201H1 - Intermediate Ancient Greek I

Hours: 48S

Reading of selections of Ancient Greek prose works with systematic language study.

Prerequisite: GRK100Y1/ GRK102H1. Grade 12 in Ancient Greek may be accepted, but students should consult the Undergraduate Coordinator before enrolling.

Breadth Requirements: Creative and Cultural Representations (1)

GRK202H1 - Intermediate Ancient Greek II

Hours: 48S

Continued language training with readings in Ancient Greek prose and verse.

Prerequisite: GRK201H1

Breadth Requirements: Creative and Cultural Representations (1)

GRK340H1 - Greek Philosophy I

Hours: 36S

Readings from one or more philosophical texts.

Prerequisite: GRK202H1

Breadth Requirements: Creative and Cultural Representations (1)

GRK341H1 - Greek Historians I

Hours: 36S

Readings from one or more Greek Historians.

Prerequisite: GRK202H1

Breadth Requirements: Creative and Cultural Representations (1)

GRK343H1 - Greek Prose Authors I

Hours: 36S

Readings from Greek prose authors (e.g., biography, novels, essays, texts in *koine*).

Prerequisite: GRK202H1

Breadth Requirements: Creative and Cultural Representations (1)

GRK350H1 - Greek Epic I

Hours: 36S

Readings from Greek epics, including Homer.

Prerequisite: GRK202H1

Breadth Requirements: Creative and Cultural Representations (1)

GRK351H1 - Greek Drama I

Hours: 36S

Readings from Greek tragedy and/or comedy.

Prerequisite: GRK202H1

Breadth Requirements: Creative and Cultural Representations (1)

GRK353H1 - Greek Verse Authors I

Hours: 36S

Readings from Greek verse (e.g., elegy, iambics, lyric).

Prerequisite: GRK202H1

Breadth Requirements: Creative and Cultural Representations (1)

GRK354H1 - Greek of Classical Athens I

Hours: 36S

Readings from one or more Greek texts, in prose or poetry, from Athens of the 5th-4th centuries BCE.

Prerequisite: GRK202H1

Breadth Requirements: Creative and Cultural Representations (1)

GRK355H1 - Post-Classical Greek I

Hours: 36S

Readings from one or more Greek texts, in prose or poetry, from the Hellenistic and/or Roman Period.

Prerequisite: GRK202H1

Breadth Requirements: Creative and Cultural Representations (1)

GRK428H1 - Independent Studies

Previous Course Number: GRK428Y1

Independent Studies. Not eligible for CR/NCR option.

Prerequisite: Permission of Department

Exclusion: GRK428Y1

Recommended Preparation: Usually 1.0 credit from 300-level GRK courses

Breadth Requirements: Creative and Cultural Representations (1)

GRK429H1 - Independent Studies

Independent Studies. Not eligible for CR/NCR option.

Prerequisite: Permission of Department

Recommended Preparation: Usually 1.0 credit from 300-level GRK courses

Breadth Requirements: Creative and Cultural Representations (1)

GRK440H1 - Greek Philosophy II

Hours: 48S

Advanced readings from one or more philosophical texts.

Prerequisite: 1.0 GRK credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

GRK441H1 - Greek Historians II

Hours: 48S

Advanced readings from one or more Greek historians.

Prerequisite: 1.0 GRK credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

GRK443H1 - Greek Prose Authors II

Hours: 48S

Advanced readings from Greek prose authors (e.g., biography, novels, essays, texts in *koine*).

Prerequisite: 1.0 GRK credit at the 300-level
Breadth Requirements: Creative and Cultural Representations (1)

GRK450H1 - Greek Epic II

Hours: 48S

Advanced readings from Greek epics, including Homer.

Prerequisite: 1.0 GRK credit at the 300-level
Breadth Requirements: Creative and Cultural Representations (1)

GRK451H1 - Greek Drama II

Hours: 48S

Advanced readings from Greek tragedy and/or comedy.

Prerequisite: 1.0 GRK credit at the 300-level
Breadth Requirements: Creative and Cultural Representations (1)

GRK453H1 - Greek Verse Authors II

Hours: 48S

Advanced readings from Greek verse (e.g., elegy, iambic, lyric).

Prerequisite: 1.0 GRK credit at the 300-level
Breadth Requirements: Creative and Cultural Representations (1)

GRK454H1 - Greek of Classical Athens II

Hours: 48S

Advanced readings from one or more Greek texts, in prose or poetry, from Athens of the 5th-4th centuries BCE.

Prerequisite: 1.0 GRK credit at the 300-level
Breadth Requirements: Creative and Cultural Representations (1)

GRK455H1 - Post-Classical Greek II

Hours: 48S

Advanced readings from one or more Greek texts, in prose or poetry, from the Hellenistic and/or Roman Period.

Prerequisite: 1.0 GRK credit at the 300-level
Breadth Requirements: Creative and Cultural Representations (1)

Latin

LAT101H1 - Introductory Latin I

Previous Course Number: LAT100Y1
Hours: 48S

An intensive introduction to Latin for students who have no knowledge of the language; preparation for the reading of Latin literature.

Exclusion: LAT100Y1. Students who have studied Latin previously must obtain permission from the Undergraduate Coordinator before enrolling.
Breadth Requirements: Creative and Cultural Representations (1)

LAT102H1 - Introductory Latin II

Hours: 48S

A continuation of the intensive introduction to Latin in LAT 101H1. Also appropriate for students who have some training in Latin, but have not completed a whole credit course at University or a final-year (Grade 12) course in secondary school.

Prerequisite: LAT101H1/some background in Latin
Exclusion: LAT100Y1
Breadth Requirements: Creative and Cultural Representations (1)

LAT201H1 - Intermediate Latin I

Hours: 48S

Reading of selections of Latin prose works with systematic language study.

Prerequisite: LAT100Y1/LAT102H1. Grade 12 in Latin may be accepted, but students should consult the Undergraduate Coordinator before enrolling.
Breadth Requirements: Creative and Cultural Representations (1)

LAT202H1 - Intermediate Latin II

Hours: 48S

Continued language training with readings in Latin prose and verse.

Prerequisite: LAT201H1

Breadth Requirements: Creative and Cultural Representations (1)

LAT341H1 - Latin Historians I

Hours: 36S

Readings from one or more Latin historians.

Prerequisite: LAT202H1

Breadth Requirements: Creative and Cultural Representations (1)

LAT342H1 - Latin Orators I

Hours: 36S

Readings from Latin orators, including Cicero.

Prerequisite: LAT202H1

Breadth Requirements: Creative and Cultural Representations (1)

LAT343H1 - Latin Prose Authors I

Hours: 36S

Readings from Latin prose authors (e. g. biography, letters, philosophy).

Prerequisite: LAT202H1

Breadth Requirements: Creative and Cultural Representations (1)

LAT350H1 - Latin Epic I

Hours: 36S

Readings from one or more Latin epics, including Virgil.

Prerequisite: LAT202H1

Breadth Requirements: Creative and Cultural Representations (1)

LAT351H1 - Latin Drama I

Hours: 36S

Readings from Latin comedy and/or tragedy.

Prerequisite: LAT202H1

Breadth Requirements: Creative and Cultural Representations (1)

LAT353H1 - Latin Verse Authors I

Hours: 36S

Readings from Latin verse (e. g. elegy, lyric, bucolic).

Prerequisite: LAT202H1

Breadth Requirements: Creative and Cultural Representations (1)

LAT354H1 - Latin of the Roman Republic I

Hours: 36S

Readings from one or more Latin texts, in prose or poetry, from the Roman Republican Period.

Prerequisite: LAT202H1

Breadth Requirements: Creative and Cultural Representations (1)

LAT355H1 - Latin of the Roman Empire I

Hours: 36S

Readings from one or more Latin texts, in prose or poetry, from the period between the late 1st century BCE and late antiquity.

Prerequisite: LAT202H1

Breadth Requirements: Creative and Cultural Representations (1)

LAT428H1 - Independent Studies

Previous Course Number: LAT428Y1

Independent Studies. Not eligible for CR/NCR option.

Prerequisite: Permission of Department

Exclusion: LAT428Y1

Recommended Preparation: Usually 1.0 credit from 300-level LAT courses

Breadth Requirements: Creative and Cultural Representations (1)

LAT429H1 - Independent Studies

Independent Studies. Not eligible for CR/NCR option.

Prerequisite: Permission of Department

Recommended Preparation: Usually 1.0 credit from 300-level LAT courses

Breadth Requirements: Creative and Cultural Representations (1)

LAT441H1 - Latin Historians II

Hours: 48S

Advanced readings from one or more Latin historians.

Prerequisite: 1.0 LAT credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

LAT442H1 - Latin Orators II

Hours: 48S

Advanced readings from Latin orators, including Cicero.

Prerequisite: 1.0 LAT credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

LAT443H1 - Latin Prose Authors II

Hours: 48S

Advanced readings from Latin prose authors (e. g. biography, letters, philosophy).

Prerequisite: 1.0 LAT credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

LAT450H1 - Latin Epic II

Hours: 48S

Advanced readings from one or more Latin epics, including Virgil.

Prerequisite: 1.0 LAT credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

LAT451H1 - Latin Drama II

Hours: 48S

Advanced readings from Latin comedy and/or tragedy.

Prerequisite: 1.0 LAT credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

LAT453H1 - Latin Verse Authors II

Hours: 48S

Advanced readings from Latin verse (e. g. elegy, lyric, bucolic).

Prerequisite: 1.0 LAT credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

LAT454H1 - Latin of the Roman Republic II

Hours: 48S

Advanced readings from one or more Latin texts, in prose or poetry, from the Roman Republican Period.

Prerequisite:

1.0 LAT credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

LAT455H1 - Latin of the Roman Empire II

Hours: 48S

Advanced readings from one or more Latin texts, in prose or poetry, from the period between the late 1st century BCE and late antiquity.

Prerequisite: 1.0 LAT credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

Combined Degree Programs

Combined Degree Program (CDP) in HBA/HBSc and Master of Teaching (MT) (Victoria College and OISE)

The Combined Degree Program in HBA/HBSc and Master of Teaching (MT) is designed for students interested in studying the intersections of teaching subjects and Education, coupled with professional teacher preparation. Students earn an Honours Bachelor's degree from the Faculty of Arts and Science (St. George) and an accredited professional Master of Teaching (MT) degree from the Ontario Institute for Studies in Education (OISE). The CDP permits the completion of both degrees in six years with 1.0 credit that may be counted towards both the undergraduate and graduate degrees. There are 5 distinct Combined Degree Programs:

- Honours Bachelor of Arts, Major in English/Master of Teaching
- Honours Bachelor of Arts, Major in History/Master of Teaching
- Honours Bachelor of Science, Major in Mathematics/Master of Teaching
- Honours Bachelor of Science, Major in Psychology/Master of Teaching
- Honours Bachelor of Arts, Major in Sociology/Master of Teaching

Enquiries: vic.academics@utoronto.ca; 416-585-4441

Admission Requirements:

Applicants apply successively to the H.B.A./H.B.Sc. program, the MT program, and the CDP. See the department/college sections for admission requirements in the relevant Major and Minor programs.

In the Spring term of Year 3 of the Bachelor program, students apply at OISE for **conditional admission to the MT. To be considered for conditional admission to the Master of Teaching and the Combined Degree Program**, students must meet the following admission requirements:

- Have completed or be on course to complete the Minor in Education and Society (Victoria College)

- Be registered in the 3rd year of the H.B.Sc. or H.B.A. Degree Program, in one of the above listed major programs.
- Have completed at least half of the teaching subjects' prerequisite courses (i.e. 3.0 credits in 1st teaching subject, and 1.5 credits in 2nd teaching subject) by the end of third year.
- Have an average grade equivalent of at least B+, normally demonstrated by an average grade in the 2nd year.
- Provide at least two letters of reference.
- In their Statement of Intent, applicants should indicate their preferred concentration (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior) and describe three significant teaching and/or teaching-related experiences that they have had, especially with groups of children.
- Meet other qualifications as specified by the MT program.

See: <https://www.oise.utoronto.ca/ctl/masters-degrees/master-teaching>

Once students have accepted a conditional offer of admission to the MT program, they will be eligible to take 1.0 credit at the graduate level at OISE in their fourth year, which will count towards both the undergraduate degree and the Master of Teaching degree.

If the student does not meet the above conditions, the offer of conditional admission to the Combined Degree Program will be rescinded. Students in this position could apply separately to the Master of Teaching outside of the Combined Degree Program.

For students to be given **full, unconditional admission to the MT program**, they must:

- Maintain at least a B+ (3.3) average in their final year or over senior courses.
- Achieve a grade of at least B+ average in the 1.0 graduate FCE taken in Year 4.
- Have completed required courses to meet the first and second teaching subjects.
- Successfully complete the requirements for the H.B.Sc./H.B.A. program.
- Have the undergraduate degree confirmed.

Completion Requirements:

Note: at the undergraduate level, a "credit" is equal to the graduate-level "full-course equivalent (FCE)."

1. Minor in Education and Society, Victoria College
2. Major in one of the following areas, corresponding to the first teaching subject:
 - English
 - History
 - Mathematics

- [Psychology](#)
- [Sociology](#)

3. Minor in an area corresponding to the second teaching subject as determined by OISE. See the teaching subject prerequisites for [Junior/Intermediate](#) and [Intermediate/Senior](#) teaching.

Academic Path to Completion for the CDP

Year 1-4:

- H.B.Sc./H.B.A. program and degree requirements

Year 4:

- 1.0 credit (FCE) in the MT graduate courses

Year 5-6:

- 9 credits (FCEs) of the MT program requirements

Combined Degree Program (CDP) in Education and Society, HBA/HBSc and Master of Arts, Child Study and Education (MA-CSE) (Victoria College and OISE)

The Combined Degree Program (CDP): STG, Honours Bachelor of Arts, Minor in Education and Society / Child Study and Education, Master of Arts is designed for students interested in studying the intersections of child study, education, and human development, coupled with professional teacher preparation.

The CDP permits the completion of both degrees in six years with 1.0 FCE of graduate courses that may be counted towards both the undergraduate and graduate degree. Students admitted to the CDP will follow the academic path to completion outlined below.

For a general description of CDPs, see [General Regulations section 1.4.3 in the School of Graduate Studies Calendar](#).

Contact

Minor in Education and Society, Honours Bachelor of Arts or Honours Bachelor of Science
Victoria College, Faculty of Arts and Science
Web: [www.vic.utoronto.ca/academic-programs/upper-](http://www.vic.utoronto.ca/academic-programs/upper-year-programs/education-and-society/)

[year-programs/education-and-society/](#)

Academic Liaison Officer

Email: vic.academics@utoronto.ca

Master of Arts in Child Study and Education (MA-CSE)
Department of Applied Psychology and Human Development, Ontario Institute for Studies in Education
Web: <https://www.oise.utoronto.ca/aphd/programs/master-arts-child-study-education>

Vanessa Dane, Program Coordinator, Child Study & Education MA Program (MA CSE), Dr. Eric Jackman Institute of Child Study
Email: vanessa.dane@utoronto.ca

Admission Requirements:

Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) or Honours Bachelor of Science (HBSc) program, the MA in Child Study and Education (CSE) program, and the CDP
- Applicants must be in registered the HBA/HBSc program before they may be considered for admission to the CDP and MA-CSE.
- To be considered for conditional admission to the MA-CSE and the CDP, students must meet the qualifications as specified by the MA-CSE program (i.e., experience working with children, submission of a statement of intent and resumé/CV), and the following requirements:
 - Be enrolled in the Education and Society Minor Program at Victoria College.
 - Be registered in Year 3 of the HBA/HBSc degree program.
 - Have completed — or in progress to complete — VIC360H/Y Education Internship, taking place in a setting involving young children.
 - Have an average grade equivalent of at least A- (3.7) or better, normally demonstrated by an average grade in Year 2 courses.
 - Provide two letters of reference (one professional, one academic).
- To be given full, unconditional admission to the MA-CSE program, students must meet the following requirements:
 - Maintain at least an A- (3.7) average in their final year or over senior (Year 3 & 4) courses;
 - Achieve a grade of at least B+ average in the 1.0 FCE graduate course taken in Year 4;
 - Successfully complete the requirements for the HBA/HBSc program with the Minor in Education and Society and have the degree confirmed.

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBA program, the School of Graduate Studies, and the MA-CSE program.

Completion Requirements:

Academic Path to Completion

Every CDP involves a specific combination of approved degree programs. The CDP requirements build on those of the two separate degree programs. Each CDP has a unique pattern of academic activity year by year. Note: at the undergraduate level, a “credit” is equal to the graduate-level “full-course equivalent (FCE).”

Year 1-4

Progression

- HBA/ HBSc degree requirements:
 - Undergraduate courses in accordance with Faculty of Arts & Science regulations for the Education and Society Minor and degree requirements at the Faculty of Arts and Science (FAS).

Specific Requirements

- Students are expected to carry a full course load of 5.0 credits over the three academic sessions (Fall, Winter, Summer) of each year;
- In the Fall Session, students registered in Year 3 express interest in the CDP to the Victoria College Registrar's Office, which advises applicants on the process in collaboration with the OISE Office of the Registrar and Student Services. Successful applicants receive conditional acceptance to the CDP, MA.
- In Year 4, students who receive a conditional offer of admission to the CDP must complete 1.0 credit in MA-CSE elective courses in consultation with the MA-CSE program Chair. This will be counted as one credit toward the overall requirements of the HBA or HBSc and MA-CSE requirements. This 1.0 credit is chosen from among master's-level courses in the Department of Applied Psychology and Human Development (APHD). Elective courses that are especially recommended for Child Study and Education Students are listed in the APHD program guidelines.
- By the end of Year 4, students must complete all HBA/ HBSc program requirements and degree requirements, including 1.0 credit of graduate courses.

- To be given full, unconditional admission to the MA-CSE, students must maintain at least an A- (3.7) average in their final year or over senior (Year 3 & 4) courses; achieve a grade of at least B+ average in the 1.0 credit graduate course taken in Year 4; successfully complete the requirements for the Minor in Education and Society, and HBSc/HBA program and have the degree confirmed.

Year 5-6

Progression

- Remaining graduate courses in accordance with the U of T regulations for the MA-CSE program.

Specific Requirements

- 10.0 credits in MA-CSE program requirements. See the Child Study and Education calendar entry for full course requirements.
- Note that students will have previously completed the 1.0 credit in electives in Year 4 of the undergraduate program.

Computer Science

Faculty List

(As of April, 2024. For an up-to-date list of faculty and administrative roles, please see <https://web.cs.toronto.edu/people/faculty-directory>)

University Professors Emeriti

S. Cook, SM, PhD, FRS, FRSC
G. Hinton, PhD, FRS, FRSC

Professors Emeriti

R. Baecker, MSc, PhD
D. Corneil, MA, PhD
J. Danahy, MScUrb & DesPI
W. Enright, MSc, PhD (University of Toronto Scarborough)
E. Fiume, PhD, FRSC
E. Hehner, MSc, PhD
G. Hirst, MSc, PhD (University of Toronto Scarborough)
K. Jackson, MSc, PhD
A. Jepson, PhD
H. Levesque, MSc, PhD, FRSC
R. Miller, MSc, PhD, FRSC
J. Mylopoulos, MSc, PhD, FRSC
R. Neal, PhD
C. Rackoff, PhD (University of Toronto Mississauga)
D. Wortman, MSc, PhD

Associate Professor, Teaching Stream Emeritus

D. Heap, MSc

Senior Lecturer Emeritus

J. Clarke, MSc, PhD

University Professor

A. Borodin, MSc, PhD, FRSC

Professor and Chair of the Department

E. de Lara, MSc, PhD

Professors

T. Abdelrahman, MSc, PhD
A. Aspuru-Guzik, PhD
R. Balakrishnan, MSc, PhD
A. Brown, MSc, PhD
M. Brudno, MSc, PhD
M. Chechik, MSc, PhD
C. Christara, MSc, PhD
E. de Lara, MSc, PhD
S. Dickinson, MSc, PhD

S. Easterbrook, PhD
F. Ellen, MMath, PhD
A. Farzan, PhD
D. Fleet, MSc, PhD (University of Toronto Scarborough)
Y. Ganjali, MSc, PhD
A. Goldenberg, MSc, PhD
E. Grinspun, PhD
A. Gupta, PhD
V. Hadzilacos, PhD (University of Toronto Scarborough)
N. Koudas, MSc, PhD (University of Toronto Scarborough)
K. Kutulakos, MSc, PhD
P. Marbach, MSc, PhD
S. McIlraith, MMath, PhD
M. Molloy, MMath, PhD (University of Toronto Scarborough)
G. Penn, MSc, PhD
T. Pitassi, MSc, PhD
B. Schroeder, MSc, PhD (University of Toronto Scarborough)
K. Singh, MSc, PhD
S. Stevenson, MSc, PhD
L. Strug, PhD
S. Toueg, MA, PhD
K. Truong, PhD
R. Urtasun, PhD
D. Wigdor, MSc, PhD
R. Zemel, MSc, PhD

Associate Professors

A. Bonner, MSc, PhD (University of Toronto Mississauga)
J. Burgner-Kahrs, PhD (University of Toronto Mississauga)
D. Duvenaud, PhD
S. Fidler, PhD (University of Toronto Mississauga)
R. Grosse, PhD
T. Grossman, PhD
A. Jacobson, PhD
S. Kopparty, PhD
D. Levin, PhD
M. Mehri Dehnavi, PhD
K. Meel, PhD
A. Nikolov, PhD
G. Pekhimenko, PhD (University of Toronto Scarborough)
C. Raffel, PhD
S. Sachdeva, PhD (University of Toronto Mississauga)
S. Saraf, PhD
N. Shah, PhD
Y. Xu, PhD

Assistant Professors

I. Ahmed, PhD
A. Anderson, PhD (University of Toronto Scarborough)
J. Ba, PhD
F. Chevalier, PhD

N. Dayan, PhD
 M. Erdogdu, PhD
 A. Farahmand, PhD (CLTA)
 I. Gilitschenski, PhD (University of Toronto
 Mississauga)
 R. G. Krishnan, PhD
 A. Levis, PhD
 D. Lindell, PhD
 F. Long, PhD
 C. Maddison, PhD
 A. Mariakakis, PhD
 C. Nobre, PhD
 G. Pekhimenko, PhD (University of Toronto
 Scarborough)
 S. Sachdeva, PhD (University of Toronto
 Mississauga)
 G. Saileshwar, PhD (University of Toronto
 Mississauga)
 K. Serkh, PhD
 N. Shah, PhD
 F. Shkurti, PhD (University of Toronto
 Mississauga)
 X. Si, PhD
 R. Soden, PhD
 A. Srinivasan, PhD (University of Toronto
 Mississauga)
 R. Tell, PhD (University of Toronto Scarborough)
 N. Vijaykumar, PhD (University of Toronto
 Scarborough)
 B. Wang, PhD
 N. Wiebe, PhD
 J. Williams, PhD
 N. Xie, PhD
 Y. Xu, PhD
 Q. Zhang, PhD (University of Toronto
 Scarborough)

Professors, Teaching Stream

J. Campbell, MMath
 M. Craig, MSc
 S. Engels, MMath, PhD
 P. Gries, MEng
 D. Horton, MSc
 K. Reid, MSc

Associate Professors, Teaching Stream

G. Baumgartner, MSc
 T. Fairgrieve, MSc, PhD
 D. Liu, MSc
 F. Pitt, MSc, PhD
 J. Smith, MSc

Assistant Professors, Teaching Stream

B. Ameri, PhD (CLTA)
 M. Badr, PhD
 J. Calver, PhD
 S. Coyne, PhD (CLTA)
 A. Gao, PhD
 S. Sharmin, PhD
 L. Shorser (P/T)
 J. Sun (CLTA)

Cross Appointed

G. Bader, PhD
 T. Barfoot, PhD
 C. Beck, PhD
 J. Cafazzo, PhD
 K. Campbell, PhD
 M. Chignell, PhD
 E. Cohen, PhD
 N. Enright-Jerger, PhD
 M. Fox, PhD
 B. Frey, PhD
 A. Goel, PhD
 M. Gruninger, PhD
 S. Guha, PhD
 B. Haibe-Kains, PhD
 M. Hoffman, PhD
 H.A. Jacobsen, MSc, PhD
 M. Jeffrey, PhD
 I. Jurisica, PhD
 L. Kahrs, PhD
 J. Kelly, PhD
 F. Khalvati, PhD
 P. Kim, PhD
 A. Kuzminykh, PhD
 B. Li, MSc, PhD
 S. Li, PhD
 D. Lie, PhD
 M. Luit, PhD
 K. Lyons, MSc, PhD
 A. Madani, PhD
 T. Maharaj, PhD
 R. McEwen, PhD
 C. McIntosh, PhD
 A. Mihailidis, PhD
 Q. Morris, PhD
 A. Moses, PhD
 A. Moshovos, PhD
 C. Munteanu, PhD
 N. Papernot, PhD
 V. Papyan, PhD
 A. Petersen, PhD
 H. Rost, PhD
 D. Roy, PhD
 S. Sanner, PhD
 D. Singh, PhD
 M. Stumm, MSc (Math), PhD
 Y. Sun, PhD
 T. Tang, PhD
 A. Veneris, MSc, PhD
 E. Yu, MSc, PhD (Professor Emeritus)
 W. Yu, PhD
 Z. Zhang, PhD
 S. Zhou, PhD

Adjunct and Status Only

O. Balmau, PhD
 D. Berry, PhD
 M. Brubaker, PhD
 B. Buxton, MSc
 P. Dietz, PhD
 L. Frermann
 M. Gabel, PhD

M. Ghassemi, PhD
 G. Gibson, PhD
 H. Huang, PhD
 D. Kaufmann, PhD
 C. Kemp, PhD
 H. Kontozopoulos
 A. Kreinen, PhD
 K. Kluchnikov
 K. Kuber
 G. Lakemeyer, PhD
 M. McCarthy
 M. Medland
 F. Rudzicz, PhD
 B. Taati, PhD
 A. Tagliasacchi, PhD
 R. Valenzano, PhD
 H. Yuen, PhD

Introduction

What is Computer Science?

Despite the name, Computer Science is not really a science of computers at all. Computers are quite remarkable electronic devices, but even more remarkable is what they can be made to do: simulate the flow of air over a wing, manage communication over the Internet, control the actions of a robot, synthesize realistic images, play grandmaster-level chess, learn how to automatically translate between languages, and on and on. Indeed, the application of computers in activities like these has affected most areas of modern life. What these tasks have in common has little to do with the physics or electronics of computers; what matters is that they can be formulated as some sort of computation. This is the real subject matter of Computer Science: computation, and what can or cannot be done computationally.

In trying to make sense of what we can get a computer to do, a wide variety of topics come up. There are, however, two recurring themes. The first is the issue of scale: how big a system can we specify without getting lost in the design, or how big a task can a computer handle within reasonable bounds of time, memory, and accuracy? A large part of Computer Science deals with these questions in one form or another. In the area of programming languages and methodology, for example, we look for notations for describing computations, and programming methodologies that facilitate the production of manageable and efficient software. In the theory of computation area, we study resource requirements in time and memory of many basic computational tasks.

The second theme concerns the scope of computation. Computers were originally conceived as purely numerical calculators, but today, we tend to view them much more broadly. Part of Computer Science is concerned with understanding just how far computational ideas can be applied. In the area of artificial intelligence, for example, we ask how the function of the human brain can be

expressed in computational terms. In the area of human-computer interaction, we ask what sorts of normal day-to-day activities of people might be supported and augmented using computers.

Computer Science Programs

Current students registered in the Faculty of Arts & Science interested in Computer Science (CS) can pursue the following programs:

- CS Major (ASMAJ1689)
- CS Minor (ASMIN1689)
- Data Science Specialist (ASSPE1687)

Current students in the first-year Computer Science admission category (CMP1) may also apply to:

- CS Specialist (ASSPE1689)

A **Minor** in Computer Science provides an introduction to theoretical and applied computer science as a complement to your studies in other areas, and allows you to take up to three 300+ level computer science courses.

A **Major** in Computer Science builds on the content of the Minor, preparing you for upper-year computer science study with options to explore a few topics more deeply. Students enrolled in the Computer Science Major can integrate their studies with another discipline.

A **Specialist** in Computer Science goes beyond the Major, providing a broad and deep foundation to computer science, and exposes you to a broad range of upper-year computer science topics.

Students enrolled in the Major or Specialist can choose to complete a **Focus** in a particular area of computer science, such as: Artificial Intelligence, Human-Computer Interaction, or the Theory of Computation, among others. See below for a full list of focuses and their respective courses.

Applying to Computer Science Programs

For enrolment requirements please refer to the individual program requirements. There are separate admission requirements and introductory courses for students admitted to the Computer Science admission stream (CMP1) and students admitted to other admissions categories. More information, including information about the supplemental application form, is available on the

Department of Computer Science website
at: <https://web.cs.toronto.edu/undergraduate/how-to-apply>

Contact us at Bahen Building, Room 4207, 40 St. George Street. Email: cs.undergrad@utoronto.ca. Website: web.cs.toronto.edu

Arts & Science Internship Program (ASIP)

The Arts & Science Internship Program (ASIP) stream is available to students who are entering Year 2 or Year 3 of study and enrolled in the Data Science Specialist, Computer Science Specialist, or Computer Science Major.

- Enrolment is limited and requires a supplemental application. Students enrolled in the ASIP stream will be required to complete mandatory Professional Development programming plus a minimum of 12 and maximum of 20 months (Year 2 entry) or a minimum of 12 and maximum of 16 months (Year 3 entry) of paid, full-time work experience. The time to degree completion for students enrolled in ASIP will normally be 5 years. There is an additional cost to participate in the ASIP stream.
- Students will typically be admitted to the ASIP stream for the Fall term of Year 2 of study, however in exceptional circumstances students, including transfer students, who enrolled in an eligible program in the Summer after Year 2 can be admitted to the ASIP stream for the Fall of Year 3. Acceptance into an ASIP stream in Year 3 is dependent on space and requires approval of the student's academic unit and the Faculty of Arts & Science Experiential Learning & Outreach Support (ELOS) Office. Please refer to the ASIP eligibility page for further details.
- Further details about ASIP, including eligibility requirements and application procedures, can be found here. Students may also visit the ASIP webpage or contact the ELOS office at asip@utoronto.ca.

Contact Information

The Department of Computer Science is committed to providing academic support to our students throughout the duration of their undergraduate studies. Our undergraduate program office can provide St. George Computer Science students with advice on course selection, program admission, research and experiential learning opportunities, and ways to get involved in the CS community.

Computer Science Programs

Applied Data Science Minor (Science Program) - ASMIN0160

More than at any other time in our history, we are living through a paradigm shift in how we think about data. Advances in computing power, algorithms for data modeling and machine learning, coupled with unparalleled access to vast quantities of data has transformed disciplines across the sciences, social sciences, and humanities. The Minor in Applied Data Science will help students learn fundamental data science methodologies drawn from computing and statistics and provide opportunities to apply these methodologies to datasets, problem domains, and explorations in many disciplines of study in Arts & Science. Understanding the human and ethical contexts and communicating results of data science methodologies will appear in courses throughout the program.

The minor is designed to complement programs in other areas with opportunities for data science applications (see program requirements for pertinent programs). This program is designed to be accessible to students who have never done any computer programming or statistics before, or who haven't taken high school or university calculus. All skills necessary to succeed in the program are taught in our courses. Most students who are interested in this program should start by choosing one of our three introductory, interdisciplinary data science courses: EEB125H1, GGR274H1, or ENG286H1, which introduce data science skills such as computer programming, statistical reasoning, and data visualization within the context of a particular discipline. Students then proceed to take a suite of key computer science and statistics courses that reinforce and extend these skills, with an emphasis on applications to real-world problems. Finally, in later years students will choose from a wide variety of courses drawn from across the Faculty of Arts & Science. These upper-year courses will provide the opportunity to discuss and analyze the human contexts of data science, and to apply data science methodologies in discipline-specific contexts.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum may change each year depending on available spaces and the number of applicants. Eligibility is based on the following criteria:

- A. Completion of one of EEB125H1/ ENG286H1/ GGR274H1/ ESS245H1/ STA130H1 with a grade of at least 60%, OR
- B. Completion of one of CSC108H1/ CSC110Y1/ CSC148H1 with a grade of at least 60%, OR
- C. Completion of one of ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ PSY201H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA261H1/ STA288H1 with a grade of at least 60%.

Obtaining this minimum grade does not guarantee admission to the program. If students have completed more than one of the above courses at the time of admission, the minimum grade will be based on the higher course grade.

Note: Students enrolled in this program cannot be simultaneously enrolled in or complete any Computer Science or Statistics programs, including the Computer Science Minor, Statistics Minor, and Data Science Specialist; nor the Focus in Data Analytics within the Economics Major or Specialist; nor the Focus in Data Science in Business within the Rotman Commerce specialist programs.

Completion Requirements:

(4.0 credits)

1. EEB125H1/ ENG286H1/ GGR274H1/ ESS245H1/ STA130H1
2. 0.5 credit from CSC108H1/ CSC110Y1/ CSC148H1
3. 0.5 credit from ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ PSY201H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA261H1/ STA288H1

Note: If you completed STA238H1, STA248H1, and/or STA261H1 before being admitted to the Minor, please note that these courses are exclusions to EEB125H1, ENG286H1, GGR274H1, and STA130H1. You can complete ESS245H1 to meet requirement 1 or can instead complete an additional 0.5 credit from the list of courses in requirement 7, for a total of 1.5 credits for requirement 7.

If you completed CSC148H1 before being admitted to the Minor, please note that this course is an exclusion to EEB125H1, ENG286H1, and GGR274H1. You can complete ESS245H1 or STA130H1 to meet requirement 1 or can instead complete an additional 0.5 credit from the list of courses in requirement 7, for a total of 1.5 credits for requirement 7.

4. CSC271H1 (first offering in 2025-26)

5. STA272H1 (first offering in 2025-26)

6. PHL277H1/ PHL377H1/ HPS246H1/ CSC300H1

7. At least 1.0 credit from the following courses:

BCB410H1/ BCB420H1/ CHM326H1/ CHM328H1/ CSB352H1/ CSB435H1/ CSB434H1/ CSB471H1/ CSB472H1/ DHU338H1/ EEB313H1/ EEB319H1/ EEB365H1/ EEB458H1/ EEB460H1/ EEB463H1/ ENV338H1/ ESS452H1/ GGR315H1/ GGR372H1/ GGR373H1/ GGR375H1/ GGR376H1/ GGR377H1/ GGR415H1/ GGR462H1/ GGR472H1/ GGR473H1/ IMM360H1/ IRE379H1/ JGA305H1/ JPM400Y1/ LIN305H1/ LIN405H1/ LIN456H1/ MGY441H1/ POL314H1/ POL352H1/ POL419H1/ PCL367H1/ PCL368H1/ PSL432H1/ PSY305H1/ SOC303H1/ 0.5 or 1.0 credits from a 300-/400-level capstone, topics, or independent study course(s) in which students apply data science methodologies, and with prior approval of the Applied Data Science Minor Program Director

Courses listed in requirement 7 are offered by academic units across the Faculty of Arts & Science. Please review the prerequisites and enrolment controls for the course(s) that you are planning to take to complete this requirement. Course enrolment controls are listed in the University's Timetable Builder. Course descriptions, prerequisites, corequisites, and exclusions are listed in both in the Timetable Builder and in the Faculty of Arts & Science Academic Calendar.

Data Science Specialist (Science Program) - ASSPE1687

The field of Data Science is a combination of statistics and computer science methodologies that enable 'learning from data'. A data scientist extracts information from data, and is involved with every step that must be taken to achieve this goal, from getting acquainted with the data to communicating the results in non-technical language. The Data Science Specialist program prepares students for work in the Data Science industry or government and for graduate studies in Data Science, Computer Science, or Statistics. Students in the program will benefit from a range of advanced courses in Computer Science and Statistics offered by the University of Toronto, as well as from a sequence of three integrative courses designed especially for the program.

The Data Science Specialist program comprises three fundamental and highly-integrated aspects. First, students will acquire expertise in statistical reasoning, methods, and inference essential for any data analyst. Second, students will receive in-depth training in computer science: the design and analysis of algorithms and data structures for handling large amounts of data, and best practices in software design. Students will receive training in machine learning, which lies at the intersection of computer and statistical sciences. The third aspect is the application of

computer science and statistics to produce analyses of complex, large-scale datasets, and the communication of the results of these analyses; students will receive training in these areas by taking integrative courses that are designed specifically for the Data Science Specialist program. The courses involve experiential learning: students will be working with real large-scale datasets from the domain of business, government, and/or science. The successful student will combine their expertise in computer and statistical science to produce and communicate analyses of complex large-scale datasets.

Skills that graduates of the program will acquire include proficiency in statistical reasoning and computational thinking; data manipulation and exploration, visualization, and communication that are required for work as a data scientist; the ability to apply statistical methods to solve problems in the context of scientific research, business, and government; familiarity and experience with best practices in software development; and knowledge of current software infrastructure for handling large data sets. Graduates of the program will be able to demonstrate the ability to apply machine learning algorithms to large-scale datasets that arise in scientific research, government, and business; create appropriate data visualizations for complex datasets; identify and answer questions that involve applying statistical methods or machine learning algorithms to complex data, and communicating the results; present the results and limitations of a data analysis at an appropriate technical level for the intended audience.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

For students admitted to Arts & Science in the Year 1 Computer Science (CMP1) admission category:

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on the number of applicants. At least 20 spaces will be available each year for students applying from Year 1 Computer Science (CMP1) within 12 months of beginning their studies:

- CSC110Y1
- CSC111H1
- MAT137Y1/ MAT157Y1
- STA130H1/ STA261H1*

* STA130H1 is restricted to first-year students, therefore students are strongly encouraged to take STA130H1 in their first year. STA261H1 will be used in place of STA130H1 for program admission purposes if a student has not completed STA130H1 or if they have completed both STA130H1 and STA261H1 by the time they are being considered for admission.

To ensure that students admitted to the program will be successful, applicants will not be considered for admission with a grade lower than 70% in CSC110Y1, MAT137Y1, and STA130H1/ STA261H1, or lower than 77% in CSC111H1. (MAT157Y1 grades will be adjusted to account for the course's greater difficulty.) Obtaining these minimum grades does not guarantee admission to the program.

For students admitted to other Arts & Science Year 1 admission categories:

Special Requirement

- Students who do not have the Computer Science Admission Guarantee must complete a supplementary application to be considered for the program.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- CSC148H1
- MAT137Y1/ MAT157Y1
- STA130H1/ STA261H1*

* STA130H1 is restricted to first-year students, therefore students are strongly encouraged to take STA130H1 in their first year. STA261H1 will be used in place of STA130H1 for program admission purposes if a student has not completed STA130H1 or if they have completed both STA130H1 and STA261H1 by the time they are being considered for admission.

To ensure that students admitted to the program will be successful, applicants with a grade lower than 70% will not be considered for admission. (MAT157Y1 grades will be adjusted to account for the course's greater difficulty.) Obtaining these minimum grades does not guarantee admission to the program.

Notes:

1. Requests for admission will be considered in the first program request period only.
2. Due to the limited enrolment nature of this program, students are strongly advised to plan to enroll in backup programs.
3. Students admitted to the program after second or third year will be required to pay retroactive deregulated program fees.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program

(ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Data Science Specialist in the Summer after Year 2.

Completion Requirements:

(13.0-13.5 credits, including at least 1.5 credits at the 400-level)

First year (3.0-3.5 credits)

[MAT137Y1](#)/ [MAT157Y1](#), [MAT223H1](#)/ [MAT240H1](#) ([MAT240H1](#) is recommended), [STA130H1](#), ([CSC108H1](#), [CSC148H1](#))/ ([CSC110Y1](#), [CSC111H1](#))

Note: Students with a strong background in an object-oriented language such as Python, Java or C++ may omit [CSC108H1](#) and proceed directly with [CSC148H1](#). There is no need to replace the missing half-credit for program completion; however, please base your course choice on what you are ready to take, not on "saving" a half-credit. Consult with the Computer Science Undergraduate Office for advice on choosing between [CSC108H1](#) and [CSC148H1](#).

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second year (3.5-4.0 credits)

[MAT237Y1](#)/ [MAT257Y1](#), [STA257H1](#), [STA261H1](#), [CSC207H1](#), ([CSC165H1](#), [CSC236H1](#))/ [CSC236H1](#)/ [CSC240H1](#) ([CSC240H1](#) is recommended), [JSC270H1](#) (Data Science I)

Note: [CSC240H1](#) is an accelerated and enriched version of [CSC165H1](#) plus [CSC236H1](#), intended for students with a strong mathematical background, or who develop an interest after taking [CSC165H1](#). If you take [CSC240H1](#) without [CSC165H1](#), there is no need to replace the missing half-credit for program completion; however, please base your course choice on what you are ready to take, not on "saving" a half-credit. Consult the Computer Science Undergraduate Office for advice on choosing between [CSC165H1](#) and [CSC240H1](#). [CSC236H1](#) may be taken without [CSC165H1](#) for students who completed [CSC111H1](#).

Later years (6.5 credits/7.0 credits for students who have not completed [STA130H1](#) (see 4.))

1. [STA302H1](#), one of [STA303H1](#) or [STA305H1](#), [STA355H1](#), [CSC209H1](#), [CSC263H1](#)/ [CSC265H1](#) ([CSC265H1](#) is recommended), [CSC343H1](#), [CSC373H1](#), [JSC370H1](#) (Data Science II)
2. [STA314H1](#)/ [CSC311H1](#)
3. 2.0 credits from the following list, including at least 1.0 credit at the 400-level (see below for additional conditions): [STA303H1](#)/ [STA305H1](#) (whichever one was not taken previously),

[STA313H1](#)/ [CSC316H1](#), [STA347H1](#), [CSC401H1](#), [STA414H1](#)/ [CSC412H1](#), [CSC413H1](#)/ [CSC421H1](#), any 400-level STA course; [JSC470H1](#) (*Data Science III*); [CSC454H1](#), [CSC490H1](#), [CSC491H1](#), [CSC494H1](#), [CSC495H1](#), [CSC494Y1](#).

4. If a student has not completed [STA130H1](#) then an additional 0.5 credit 300+ level STA course that is not used towards any other program requirement must be completed.

The choices from 3 must satisfy the requirement for an integrative, inquiry-based activity by including at least 0.5 credit from the following: [JSC470H1](#) (*Data Science III*); [CSC454H1](#), [CSC490H1](#), [CSC491H1](#), [CSC494H1](#), [CSC495H1](#), [CSC494Y1](#), [STA490Y1](#), [STA496H1](#), [STA497H1](#), [STA498Y1](#), [STA499Y1](#). Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

Transfer credits (except for those attained through a University of Toronto exchange program) cannot comprise more than 1.0 credit at the 300-/400-level, and cannot be used to satisfy the requirement for an integrative, inquiry-based activity. In addition, transfer credits (except for those attained through a University of Toronto exchange program) cannot comprise more than 0.5 credit of the 400-level CSC or or STA or JSC courses required.

Students will be advised to develop domain expertise in at least one area where Data Science is applicable, by taking a sequence of courses in that area throughout their program. Examples of such areas will be provided to students by program advisors and will form the basis for a later proposal for program Focuses (to be approved through internal Arts & Science governance procedures).

Note:

-If you do not complete [STA130H1](#) in your first year of study, this requirement must be fulfilled by completing a 300 or 400-level 0.5 credit STA course to replace [STA130H1](#). Please note that the 300 or 400-level STA course used to replace [STA130H1](#) cannot be a course that is already being used to meet a program completion requirement.

Computer Science Specialist (Science Program) - ASSPE1689

Enrolment Requirements:

This is a limited enrolment program. Only students in the Year 1 Computer Science admission category (CMP1) who meet the criteria of the Computer Science program admission guarantee are eligible to apply to the Computer Science Specialist program.

Requests for admission will be considered in the first program request period only. Students must have completed 4.0 credits and meet the requirements listed below to apply.

Completed courses (with minimum grades)

Students in the CMP1 admissions category have guaranteed admission to the Computer Science Specialist, provided the following courses with the stated minimum grades are successfully completed within 12 months of beginning their studies:

- CSC110Y1 (70%)
- CSC111H1 (77%)
- MAT137Y1/ MAT157Y1

Note:

1. If you are admitted to the CS Specialist in a session other than the summer after your first year (including if you are admitted after completing summer courses), you may be charged retroactive program fees. More information about retroactive fees can be found in the Faculty of Arts & Science Fees & Refund page.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Computer Science Specialist in the Summer after Year 2.

Completion Requirements:

(12.0 credits, including at least 1.5 credits at the 400-level)

First year (2.5 credits):

1. (CSC110Y1, CSC111H1), MAT137Y1/ MAT157Y1

Notes:

- a. CSC110Y1 and CSC111H1 must be completed in order to complete the Specialist program. No course substitutions will be accepted for CSC110Y1 and/or CSC111H1.
- b. Students seeking an enriched introduction to the theory of computing may choose to enrol in CSC240H1 in their first year. Please consult the department's Undergraduate Office for advice about enrolling in CSC240H1.

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream. (See **Note** below)

Second year (3.5 credits):

2. CSC207H1, CSC209H1, CSC236H1/ CSC240H1, CSC258H1, CSC263H1/ CSC265H1, MAT223H1/ MAT240H1; STA247H1/ STA237H1/ STA255H1/ STA257H1

Later years (6.0 credits):

3. CSC369H1, CSC373H1

4. 5.0 credits of courses selected from the following list:

- Any 300-/400-level CSC course; BCB410H1; BCB420H1; BCB330Y1/ BCB430Y1; MAT224H1/ MAT247H1; MAT235Y1/ MAT237Y1/ MAT257Y1; any 300-/400-level MAT course except MAT329Y1, MAT390H1, MAT391H1; STA248H1/ STA238H1/ STA261H1; any 300-/400-level STA course

These 5.0 credits must include:

- at least 1.5 credits from 400-level CSC or BCB courses
- no more than 2.0 credits from MAT or STA courses (excluding STA414H1)
- no more than 0.5 credits from CSC311H1/ STA314H1
- no more than 0.5 credits from CSC412H1/ STA414H1
- no more than 0.5 credits from CSC438H1/ MAT309H1

No more than 1.0 credit from CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1, BCB330Y1/ BCB430Y1 may be used to fulfill program requirements.

The choices in 4 must satisfy the requirement for an integrative, inquiry-based activity by including one of the following courses: CSC301H1, CSC302H1, CSC316H1, CSC318H1, CSC404H1, CSC413H1, CSC417H1, CSC418H1, CSC419H1, CSC428H1, CSC454H1, CSC485H1, CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1. Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

Transfer credits (except for those attained through a University of Toronto exchange program) cannot comprise more than 1.0 credit at the 300-/400-level, and cannot be used to satisfy the requirement for an integrative, inquiry-based activity. In addition, transfer credits (except for those attained through a University of Toronto exchange

program) cannot comprise more than 0.5 credit of the 400-level CSC or BCB courses required.

Choosing courses

This program offers considerable freedom to choose courses at the 300-/400-level, and you are free to make those choices on your own. We are eager to offer guidance, however, and both our Undergraduate Office and individual faculty members are a rich source of advice.

Computer Science Major (Science Program) - ASMAJ1689

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

For students admitted to Arts & Science in the Year 1 Computer Science (CMP1) admission category:

Completed courses (with minimum grades)

Students in the CMP1 admissions category have guaranteed admission to the Computer Science Major, provided the following courses with the stated minimum grades are completed within 12 months of beginning their studies:

- CSC110Y1 (70%)
- CSC111H1 (77%)
- MAT137Y1/ MAT157Y1

For students admitted to other Arts & Science Year 1 admission categories:

Special Requirement

- Students who do not have the Computer Science Admission Guarantee must complete a supplementary application to be considered for the program.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- CSC148H1
- CSC165H1/ CSC240H1

To ensure that students admitted to the program will be successful, applicants with a grade below 70% will not be considered for admission. Obtaining this minimum grade does not guarantee admission to the program.

Notes:

1. Requests for admission will be considered in the first program request period only.
2. Due to the limited enrolment nature of this program, students are strongly advised to plan to enrol in backup programs.
3. Students admitted to the program after second or third year will be required to pay retroactive deregulated program fees.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Computer Science Major in the Summer after Year 2.

Completion Requirements:

(8.0 credits, including at least one 0.5 credit at the 400-level)

First year (2.5 credits):

1. (CSC108H1, CSC148H1, CSC165H1/ CSC240H1) / (CSC110Y1, CSC111H1); MAT137Y1/ MAT157Y1 / (MAT135H1, MAT136H1)

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Notes:

- a. Students with a strong background in an object-oriented language such as Python, Java or C++ may omit CSC108H1 and proceed directly with CSC148H1. [There is no need to replace the missing 0.5 credit for program completion; however, please base your course choice on what you are ready to take, not on "saving" a 0.5 credit].
- b. CSC240H1 is an accelerated and enriched version of CSC165H1 plus CSC236H1, intended for students with a strong mathematical background, or who develop an interest after taking CSC165H1. If you take CSC240H1 without CSC165H1, there is no need to replace the

missing half-credit for program completion; but please see Note (a).

- c. Consult the Undergraduate Office for advice about choosing among CSC108H1 and CSC148H1, and between CSC165H1 and CSC240H1.
- d. We recommend that students take MAT137Y1 or MAT157Y1, as they have been determined to provide the best preparation for upper-year courses in computer science and benefit students in CSC165H1/ CSC240H1.

Second year (2.5 credits):

2. CSC207H1, CSC236H1/ CSC240H1, CSC258H1, CSC263H1/ CSC265H1, STA247H1/ STA237H1/ STA255H1/ STA257H1

Later years (3.0 credits):

3. 3.0 credits of courses selected from the following list:

- CSC209H1; CSC299H1; CSC299Y1; any 300-/400-level CSC course; BCB410H1; BCB420H1; BCB330Y1/ BCB430Y1; MAT223H1/ MAT240H1; MAT235Y1/ MAT237Y1/ MAT257Y1, any 300-/400-level MAT course except MAT329Y1, MAT390H1, MAT391H1; STA414H1

These 3.0 credits must include:

- at least one 0.5 credit from a 400-level CSC/ BCB course
- at least 1.5 additional credits from 300-/ 400-level CSC/ BCB courses
- no more than 0.5 credit from CSC412H1/ STA414H1
- no more than 0.5 credit from CSC438H1/ MAT309H1

No more than 1.0 credit from CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1, BCB330Y1/ BCB430Y1 may be used to fulfill program requirements.

The choices in 3 must satisfy the requirement for an integrative, inquiry-based activity by including one of the following courses: CSC301H1, CSC302H1, CSC316H1, CSC318H1, CSC404H1, CSC413H1, CSC417H1, CSC418H1, CSC419H1, CSC428H1, CSC454H1, CSC485H1, CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1. Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

Transfer credits (except for those attained through a University of Toronto exchange program) cannot comprise more than 1.0 credit at the 300-/ 400-level, and cannot be used to satisfy the requirement for an integrative, inquiry-based activity. In addition, transfer credits (except for those attained through a University of Toronto exchange

program) cannot be used to satisfy the requirement for 0.5 credit at the 400-level in CSC/ BCB.

Computer Science Minor (Science Program) - ASMIN1689

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

For students admitted to Arts & Science in the Year 1 Computer Science (CMP1) admission category:

Completed courses (with minimum grades)

Students in the CMP1 admissions category have guaranteed admission to the Computer Science Minor, provided the following courses with the stated minimum grades are completed within 12 months of beginning their studies:

- CSC110Y1 (70%)
- CSC111H1 (70%)

For students admitted to other Arts & Science Year 1 admission categories:

Special Requirement

- Students who do not have the Computer Science Admission Guarantee must complete a supplementary application to be considered for the program.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- CSC148H1
- CSC165H1/ CSC240H1

To ensure that students admitted to the program will be successful, applicants with a grade below 70% will not be considered for admission. Obtaining this minimum grade does not guarantee admission to the program.

Notes:

1. Requests for admission will be considered in the first program request period only.

- Due to the limited enrolment nature of this program, students are strongly advised to plan to enroll in backup programs.

Completion Requirements:

(4.0 credits)

1. (CSC108H1/ CSC120H1, CSC148H1, CSC165H1/ CSC240H1)/ (CSC110Y1, CSC111H1)

Notes:

- Students with a strong background in an object-oriented language such as Python, Java or C++ may omit CSC108H1 and proceed directly with CSC148H1.
- CSC240H1 is an accelerated and enriched version of CSC165H1 plus CSC236H1, intended for students with a strong mathematical background, or who develop an interest after taking CSC165H1.
- Consult the Undergraduate Office for advice about choosing among CSC108H1 and CSC148H1, and between CSC165H1 and CSC240H1.

2. CSC207H1, CSC236H1/ CSC240H1

(Total of above requirements: 2.5 credits. If you take fewer than 2.5 credits, you must take more than 1.5 credits from the next list, so that the total is 4.0 credits.)

3. 1.5 credits from the following list, of which at least 1.0 credit must be at the 300-/400-level:

- CSC: any 200-/300-/400-level

Note:

- Computer Science Minors are limited to 1.5 credits from 300-/400-level CSC/ECE courses.
- Transfer credits cannot comprise more than 0.5 credit at the 300-/400-level.

Focus in Artificial Intelligence (Specialist) - ASFOC1689B

(3.5 credits)

Artificial Intelligence (AI) is aimed at understanding and replicating the computational processes underlying intelligent behaviour. These behaviours include the perception of one's environment, learning how that environment is structured, communicating with other agents, and reasoning to guide one's actions. This focus is designed to provide students with an introduction to

some of the key scientific and technical ideas that have been developed in AI. There are four different sub-areas of AI represented in our department: Computer Vision, Computational Linguistics, Machine Learning, and Knowledge Representation and Reasoning. These areas cover a wide variety of ideas and techniques. Students wanting to achieve this focus are required to take courses from at least two of these sub-areas (as in point 2, below).

Enrolment Requirements:

Enrolment in the Computer Science Specialist Program (ASSPE1689).

Completion Requirements:

Required Courses:

- 1.0 credit from the following: CSC336H1, MAT235Y1/ MAT237Y1/ MAT257Y1, APM236H1, MAT224H1/ MAT247H1, STA238H1/ STA248H1/ STA261H1, STA302H1, STA347H1
- 2.5 credits from the following, so that courses are from at least two of the four areas:
 - CSC401H1, CSC485H1
 - CSC320H1, CSC420H1
 - CSC413H1/ CSC421H1/ CSC321H1, CSC311H1/ STA314H1, CSC412H1/ STA414H1
 - CSC304H1, CSC384H1, CSC486H1

Suggested Related Courses:

CSC324H1, COG250Y1, PSY270H1, PHL232H1, PHL342H1

Focus in Artificial Intelligence (Major) - ASFOC1689K

(3.5 credits)

The Focus in Artificial Intelligence (Major) has the same set of requirements as the Focus in Artificial Intelligence (Specialist).

Artificial Intelligence (AI) is aimed at understanding and replicating the computational processes underlying intelligent behaviour. These behaviours include the perception of one's environment, learning how that environment is structured, communicating with other agents, and reasoning to guide one's actions. This focus is designed to provide students with an introduction to some of the key scientific and technical ideas that have been developed in AI. There are four different sub-areas of AI represented in our department: Computer Vision, Computational Linguistics, Machine Learning, and Knowledge Representation and Reasoning. These areas cover a wide variety of ideas and techniques. Students

wanting to achieve this focus are required to take courses from at least two of these sub-areas (as in point 2, below).

Enrolment Requirements:

Enrolment in the Computer Science Major Program (ASMAJ1689).

Completion Requirements:

Required Courses:

1. 1.0 credit from the following: CSC336H1, MAT235Y1/ MAT237Y1/ MAT257Y1, APM236H1, MAT224H1/ MAT247H1, STA238H1/ STA248H1/ STA261H1, STA302H1, STA347H1
2. 2.5 credits from the following, so that courses are from at least two of the four areas:
 - a. CSC401H1, CSC485H1
 - b. CSC320H1, CSC420H1
 - c. CSC413H1/ CSC421H1/ CSC321H1, CSC311H1/ STA314H1, CSC412H1/ STA414H1
 - d. CSC304H1, CSC384H1, CSC486H1

Suggested Related Courses:

CSC324H1, COG250Y1, PSY270H1, PHL232H1, PHL342H1

Focus in Computational Linguistics and Natural Language Processing (Specialist) - ASFOC1689C

(4.0 credits)

How can we build and analyze systems that enable users to communicate with computers using human language (also called natural language) and automatically process the vast amounts of data on the web available in the form of text? The focus covers appropriate material on natural language interfaces, as well as tools such as document summarization, intelligent search over the web, and so on. Students considering this focus are encouraged to consider a Major in Linguistics. [Note 0.5 credit in LIN is in addition to the 12.0 credits required to complete the Specialist program]

Enrolment Requirements:

Enrolment in the Computer Science Specialist Program (ASSPE1689).

Completion Requirements:

Required Courses:

1. CSC318H1
2. CSC401H1, CSC485H1
3. LIN101H1/ LIN200H1
4. 1.5 credits from the following: CSC309H1, CSC413H1/ CSC421H1/ CSC321H1, CSC311H1, CSC428H1, CSC486H1
5. 0.5 credit from the following: PSY100H1, COG250Y1

Suggested Related Courses:

Other relevant Computer Science courses, depending on the student's interests, include other courses in artificial intelligence such as CSC384H1 or CSC420H1. Linguistics, Psychology, and Cognitive Science are all directly relevant to this focus, and we recommend that interested students take additional courses from any or all of those disciplines.

Focus in Computational Linguistics and Natural Language Processing (Major) - ASFOC1689M

(4.0 credits)

The Focus in Computational Linguistics and Natural Language Processing (Major) has the same set of requirements as the Focus in Computational Linguistics and Natural Language Processing (Specialist).

How can we build and analyze systems that enable users to communicate with computers using human language (also called natural language) and automatically process the vast amounts of data on the web available in the form of text? The focus covers appropriate material on natural language interfaces, as well as tools such as document summarization, intelligent search over the web, and so on. Students considering this focus are encouraged to consider a Major in Linguistics.

Enrolment Requirements:

Enrolment in the Computer Science Major Program (ASMAJ1689).

Completion Requirements:

Required Courses:

1. CSC318H1
2. CSC401H1, CSC485H1
3. LIN101H1/ LIN200H1

4. 1.5 credits from the following: CSC309H1, CSC413H1/ CSC421H1/ CSC321H1, CSC311H1, CSC428H1, CSC486H1
5. 0.5 credit from the following: PSY100H1, COG250Y1

Suggested Related Courses:

Other relevant Computer Science courses, depending on the student's interests, include other courses in artificial intelligence such as CSC384H1 or CSC420H1. Linguistics, Psychology, and Cognitive Science are all directly relevant to this focus, and we recommend that interested students take additional courses from any or all of those disciplines.

Focus in Computer Systems (Specialist) - ASFOC1689F

(3.0 credits)

Software systems are complex and interesting. Poorly done systems can be incredibly expensive: they can cost society billions of dollars and sometimes make the difference between life and death. Rapid changes in technology and applications means that the underlying systems must continually adapt. This focus takes you under the covers of software systems, laying bare the layers and introducing you to concurrency issues, scalability, multiprocessor systems, distributed computing, and more.

Enrolment Requirements:

Enrolment in the Computer Science Specialist Program (ASSPE1689).

Completion Requirements:

Required Courses:

1. CSC209H1
2. 1.5 credits from the following: CSC343H1, CSC367H1, CSC369H1, CSC457H1/ CSC458H1
3. 1.0 credit from the following: CSC457H1/ CSC458H1 (if not taken in list 2), CSC324H1, CSC368H1, CSC385H1, CSC443H1, CSC469H1, CSC488H1

Suggested Related Courses:

1. CSC301H1, CSC309H1, CSC410H1
2. Relevant courses offered at UTM: CSC347H5, CSC423H5, CSC427H5
3. Relevant courses offered by Engineering: ECE454H1, ECE568H1

Focus in Computer Systems (Major) - ASFOC1689P

(3.0 credits)

Software systems are complex and interesting. Poorly done systems can be incredibly expensive: they can cost society billions of dollars and sometimes make the difference between life and death. Rapid changes in technology and applications means that the underlying systems must continually adapt. This focus takes you under the covers of software systems, laying bare the layers and introducing you to concurrency issues, scalability, multiprocessor systems, distributed computing, and more.

Enrolment Requirements:

Enrolment in the Computer Science Major Program (ASMAJ1689).

Completion Requirements:

Required Courses:

1. CSC209H1
2. 1.5 credits from the following: CSC343H1, CSC367H1, CSC369H1, CSC457H1/ CSC458H1
3. 1.0 credit from the following: CSC457H1/ CSC458H1 (if not taken in list 2), CSC324H1, CSC368H1, CSC385H1, CSC443H1, CSC469H1, CSC488H1

Suggested Related Courses:

1. CSC301H1, CSC309H1, CSC410H1
2. Relevant courses offered at UTM: CSC347H5, CSC423H5, CSC427H5
3. Relevant courses offered by Engineering: ECE454H1, ECE568H1

Focus in Computer Vision (Specialist) - ASFOC1689D

(3.5 credits)

Computer vision is the science and technology of machines that can see. As a science, the goal of computer vision is to understand the computational processes required for a machine to come to an understanding of the content of a set of images. The data here may be a single snapshot, a video sequence, or a set of images from different viewpoints or provided by medical scanners.

The computer vision focus introduces students to the study of vision from a computational point of view. That is, we attempt to clearly define computational problems for various steps of the overall process, and then show how these problems can be tackled with appropriate algorithms.

Students who wish to pursue computer vision should have an understanding of linear algebra and calculus of several variables. Moreover, they should be solid programmers and have a good understanding of data structures and algorithm design. These basic tools are required in order to first pose computational vision problems, and then develop and test algorithms for the solution to those problems.

Enrolment Requirements:

Enrolment in the Computer Science Specialist Program (ASSPE1689).

Completion Requirements:

Required Courses:

1. MAT235Y1/ MAT237Y1/ MAT257Y1, CSC320H1, CSC336H1, CSC311H1, CSC420H1
2. 0.5 credit from the following: CSC412H1, CSC417H1, CSC317H1/ CSC418H1, CSC419H1, CSC2503H (Note: students must request permission to take a graduate course.)

Suggested Related Courses:

The following are examples of topics and courses that fit naturally with a study of computational vision. The list is meant to be illustrative of the range of cognate topics, but is not necessarily complete. The ordering is alphabetical and not indicative of importance. Note: there are prerequisites for many of these courses that we do not list here.

APM462H1, COG250Y1, CSC384H1, CSC485H1, CSC486H1, ECE216H1, PHL232H1, PHY385H1, PSL440Y1, PSY270H1, PSY280H1, STA257H1/ STA261H1

Focus in Computer Vision (Major) - ASFOC1689L

(3.5 credits)

The Focus in Computer Vision (Major) has the same set of requirements as the Focus in Computer Vision (Specialist).

Computer vision is the science and technology of machines that can see. As a science, the goal of

computer vision is to understand the computational processes required for a machine to come to an understanding of the content of a set of images. The data here may be a single snapshot, a video sequence, or a set of images from different viewpoints or provided by medical scanners.

The computer vision focus introduces students to the study of vision from a computational point of view. That is, we attempt to clearly define computational problems for various steps of the overall process, and then show how these problems can be tackled with appropriate algorithms.

Students who wish to pursue computer vision should have an understanding of linear algebra and calculus of several variables. Moreover, they should be solid programmers and have a good understanding of data structures and algorithm design. These basic tools are required in order to first pose computational vision problems, and then develop and test algorithms for the solution to those problems.

Enrolment Requirements:

Enrolment in the Computer Science Major Program (ASMAJ1689).

Completion Requirements:

Required Courses:

1. MAT235Y1/ MAT237Y1/ MAT257Y1, CSC320H1, CSC336H1, CSC311H1, CSC420H1
2. 0.5 credit from the following: CSC412H1, CSC417H1, CSC317H1/ CSC418H1, CSC419H1, CSC2503H (Note: students must request permission to take a graduate course.)

Suggested Related Courses:

The following are examples of topics and courses that fit naturally with a study of computational vision. The list is meant to be illustrative of the range of cognate topics, but is not necessarily complete. The ordering is alphabetical and not indicative of importance. Note: there are prerequisites for many of these courses that we do not list here.

APM462H1, COG250Y1, CSC384H1, CSC485H1, CSC486H1, ECE216H1, PHL232H1, PHY385H1, PSL440Y1, PSY270H1, PSY280H1, STA257H1/ STA261H1

Focus in Game Design (Specialist) - ASFOC1689G

(3.0 credits)

Video game design combines several disciplines within computer science, including software engineering, graphics, artificial intelligence, and human-computer interaction. It also incorporates elements of economics, psychology, music, and creative writing, requiring video game researchers to have a diverse, multidisciplinary set of skills.

Students who wish to pursue video game design should have an understanding of linear algebra (for computer graphics modelling), computer hardware and operating systems (for console architecture), data structures, and algorithm design. Students will gain a general knowledge of the more advanced topics listed in the courses below.

Enrolment Requirements:

Enrolment in the Computer Science Specialist Program (ASSPE1689).

Completion Requirements:

Required courses:

1. [CSC300H1](#), [CSC301H1](#), [CSC318H1](#), [CSC384H1](#), [CSC317H1](#)/ [CSC417H1](#)/ [CSC418H1](#)/ [CSC419H1](#), [CSC404H1](#)

Suggested Related Courses:

1. [CSC303H1](#), [CSC304H1](#), [CSC457H1](#), [CSC458H1](#), [CSC428H1](#)
2. [MUS300H1](#), [CIN212H1](#)/ [INI222H1](#), [CIN432H1](#)/ [INI465H1](#), [ENG235H1](#)
3. [ECO326H1](#), [RSM482H1](#)/MGT2056H

Focus in Game Design (Major) - ASFOC1689N

(3.0 credits)

The Focus in Game Design (Major) has the same set of requirements as the Focus in Game Design (Specialist).

Video game design combines several disciplines within computer science, including software engineering, graphics, artificial intelligence, and human-computer interaction. It also incorporates elements of economics, psychology, music, and creative writing, requiring video game researchers to have a diverse, multidisciplinary set of skills.

Students who wish to pursue video game design should have an understanding of linear algebra (for computer graphics modelling), computer hardware and operating systems (for console architecture), data structures, and algorithm design. Students will gain a general knowledge of the more advanced topics listed in the courses below.

Enrolment Requirements:

Enrolment in the Computer Science Major Program (ASMAJ1689).

Completion Requirements:

Required courses:

1. [CSC300H1](#), [CSC301H1](#), [CSC318H1](#), [CSC384H1](#), [CSC317H1](#)/ [CSC417H1](#)/ [CSC418H1](#)/ [CSC419H1](#), [CSC404H1](#)

Suggested Related Courses:

1. [CSC303H1](#), [CSC304H1](#), [CSC457H1](#), [CSC458H1](#), [CSC428H1](#)
2. [MUS300H1](#), [CIN212H1](#)/ [INI222H1](#), [CIN432H1](#)/ [INI465H1](#), [ENG235H1](#)
3. [ECO326H1](#), [RSM482H1](#)/MGT2056H

Focus in Human-Computer Interaction (Specialist) - ASFOC1689H

(3.5 credits)

Human-Computer Interaction (HCI) is the scientific study of the use of computers by people and the design discipline that informs the creation of systems and software that are useful, usable, and enjoyable for the people who use them. HCI students have exciting opportunities for research and graduate school; HCI professionals often have jobs with titles such as user interface architect, user interface specialist, interaction designer, or usability engineer.

Enrolment Requirements:

Enrolment in the Computer Science Specialist Program (ASSPE1689).

Completion Requirements:

Required Courses:

1. [CSC300H1](#), [CSC301H1](#), [CSC318H1](#), [CSC428H1](#)
2. [STA238H1](#)/ [STA248H1](#)/ [SOC204H1](#)/ [PSY201H1](#)
3. [PSY100H1](#)/ [SOC100H1](#)/ [MIE343H1](#)/ [MIE344H1](#)/ [MIE448H1](#) (These MIE courses address Human Factors or Ergonomics, offered by the Department of Mechanical and Industrial Engineering. Human factors is a discipline closely associated with human-computer interaction that approaches problems in slightly different ways.)

4. [CSC302H1/ CSC309H1/ CSC311H1/ CSC316H1/ CSC320H1/ CSC384H1/ CSC401H1/ CSC404H1/ CSC420H1/ CSC454H1/ CSC485H1](#)

Suggested Related Courses:

- [STA313H1](#)
- [MIE240H1, MIE449H1](#)
- [ENV281H1, ENV381H1](#)
- [IRE260H1](#)
- [COG250Y1, COG260H1, COG341H1, COG343H1, and COG344H1](#)

If you have completed any of these suggested related courses, please contact cs.undergrad@utoronto.ca to determine whether it may be appropriate to count a related course towards Focus requirements.

Focus in Human-Computer Interaction (Major) - ASFOC1689Q

(3.5 credits)

Human-Computer Interaction (HCI) is the scientific study of the use of computers by people and the design discipline that informs the creation of systems and software that are useful, usable, and enjoyable for the people who use them. HCI students have exciting opportunities for research and graduate school; HCI professionals often have jobs with titles such as user interface architect, user interface specialist, interaction designer, or usability engineer.

Enrolment Requirements:

Enrolment in the Computer Science Major Program (ASMAJ1689).

Completion Requirements:

Required Courses:

1. [CSC300H1, CSC301H1, CSC318H1, CSC428H1](#)
2. [STA238H1/ STA248H1/ SOC204H1/ PSY201H1](#)
3. [PSY100H1/ SOC100H1/ MIE343H1/ MIE344H1/ MIE448H1](#) (These MIE courses address Human Factors or Ergonomics, offered by the Department of Mechanical and Industrial Engineering. Human factors is a discipline closely associated with human-computer interaction that approaches problems in slightly different ways.)
4. [CSC302H1/ CSC309H1/ CSC311H1/ CSC316H1/ CSC320H1/ CSC384H1/ CSC401H1/ CSC404H1/ CSC420H1/ CSC454H1/ CSC485H1](#)

Suggested Related Courses:

- [STA313H1](#)
- [MIE240H1, MIE449H1](#)
- [ENV281H1, ENV381H1](#)
- [IRE260H1](#)
- [COG250Y1, COG260H1, COG341H1, COG343H1, and COG344H1](#)

If you have completed any of these suggested related courses, please contact cs.undergrad@utoronto.ca to determine whether it may be appropriate to count a related course towards Focus requirements.

Focus in Scientific Computing (Specialist) - ASFOC1689A

(3.5 credits)

Scientific computing studies the world around us. Known and unknown quantities are related through certain rules, e.g. physical laws, formulating mathematical problems. These problems are solved by numerical methods implemented as algorithms and run on computers. The numerical methods are analyzed and their performance (e.g. accuracy, efficiency) studied. Problems, such as choosing the optimal shape for an airplane (to achieve, for example, minimal fuel consumption), finding the fair price for derivative products of the market, or regulating the amount of radiation in medical scans, can be modelled by mathematical expressions and solved by numerical techniques.

Students wishing to study scientific computing should have a strong background in mathematics—in particular calculus of several variables, linear algebra, and statistics—be fluent in programming, and have a good understanding of data structures and algorithm design.

Enrolment Requirements:

Enrolment in the Computer Science Specialist Program (ASSPE1689).

Completion Requirements:

Required Courses:

1. [MAT235Y1/ MAT237Y1/ MAT257Y1](#)
2. 1.5 credits from the following: [CSC336H1, CSC436H1, CSC446H1, CSC456H1, CSC466H1](#)
3. 1.0 credit from the following: [CSC317H1/ CSC320H1/ CSC417H1/ CSC418H1/ CSC419H1, CSC311H1, CSC343H1, CSC384H1, CSC457H1/ CSC458H1](#)

Suggested Related Courses:

- [CSC367H1](#)
- [MAT224H1/ MAT240H1/ MAT247H1, MAT334H1/ MAT354H1, MAT337H1/ MAT357H1](#)

It is also recommended that students in this focus consider taking a half-course or two from the basic sciences (such as physics, chemistry, biology), as these sciences are the source of many problems solved by numerical techniques.

Focus in Scientific Computing (Major) - ASFOC1689O

(3.5 credits)

The Focus in Scientific Computing (Major) has the same set of requirements as the Focus in Scientific Computing (Specialist).

Scientific computing studies the world around us. Known and unknown quantities are related through certain rules, e.g. physical laws, formulating mathematical problems. These problems are solved by numerical methods implemented as algorithms and run on computers. The numerical methods are analyzed and their performance (e.g. accuracy, efficiency) studied. Problems, such as choosing the optimal shape for an airplane (to achieve, for example, minimal fuel consumption), finding the fair price for derivative products of the market, or regulating the amount of radiation in medical scans, can be modelled by mathematical expressions and solved by numerical techniques.

Students wishing to study scientific computing should have a strong background in mathematics—in particular calculus of several variables, linear algebra, and statistics—be fluent in programming, and have a good understanding of data structures and algorithm design.

Enrolment Requirements:

Enrolment in the Computer Science Major Program (ASMAJ1689).

Completion Requirements:

Required Courses:

1. [MAT235Y1/ MAT237Y1/ MAT257Y1](#)
2. 1.5 credits from the following: [CSC336H1](#), [CSC436H1](#), [CSC446H1](#), [CSC456H1](#), [CSC466H1](#)
3. 1.0 credit from the following: [CSC317H1/ CSC320H1/ CSC417H1/ CSC418H1/ CSC419H1, CSC311H1, CSC343H1, CSC384H1, CSC457H1/ CSC458H1](#)

Suggested Related Courses:

- [CSC367H1](#)
- [MAT224H1/ MAT240H1/ MAT247H1, MAT334H1/ MAT354H1, MAT337H1/ MAT357H1](#)

It is also recommended that students in this focus consider taking a half-course or two from the basic sciences (such as physics, chemistry, biology), as these sciences are the source of many problems solved by numerical techniques.

Focus in Technology Leadership (Computer Science Specialist) - ASFOC1689T

The Technology Leadership Focus combines the development of applied Computer Science skills with an exploration of the core aspects of leadership within the context of the technology sector.

Students who complete the Technology Leadership Focus will be well-prepared to step into leadership roles and navigate the complexities of the tech industry.

To enrol in the Technology Leadership Focus, you must meet eligibility requirements, apply and be admitted, as detailed in "Enrolment Requirements."

Enrolment Requirements:

To be admitted to the Technology Leadership Focus, you must:

- Have not yet completed [CSC207H1](#) prior to beginning Focus requirements.
- Complete an application and/or interview. Application information will be provided to all Computer Science Specialist and Major and Data Science Specialist program applicants during the Round 1 program admission period.
- Students who complete the Technology Leadership Focus application and/or interview and are admitted to a Computer Science Specialist or Major or Data Science Specialist program will be considered for admission to the Focus.

Students admitted to the Focus will be enrolled in an industry-engaged version of [CSC207H1](#) in the Fall term. This industry-engaged version of [CSC207H1](#) is a required component of the Focus, and is a prerequisite to [CSC308H1](#).

Completion Requirements:

1. Industry-engaged version of CSC207H1: Software Design
2. CSC308H1: Technology Leadership
3. 0.5 credits from CSC301H1, CSC302H1, CSC309H1, CSC318H1, and CSC343H1
4. 1.0 credits including:
 - a. Up to 0.5 credits from CSC301H1, CSC302H1, CSC309H1, CSC318H1, and CSC343H1 (if not taken in list 3)
 - b. Up to 1.0 credits from CSC404H1, CSC413H1, CSC417H1, CSC419H1, CSC428H1, CSC454H1, CSC485H1, CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1

Additionally, participating students will be invited to participate in co-curricular community-building and networking activities. These co-curricular activities will provide opportunities for students to meet leaders in the field and to reflect on their own leadership development.

Focus in Technology Leadership (Data Science Specialist) - ASFOC1687A

The Technology Leadership Focus combines the development of applied Computer Science skills with an exploration of the core aspects of leadership within the context of the technology sector.

Students who complete the Technology Leadership Focus will be well-prepared to step into leadership roles and navigate the complexities of the tech industry.

To enrol in the Technology Leadership Focus, you must meet eligibility requirements, apply and be admitted, as detailed in "Enrolment Requirements."

Enrolment Requirements:

To be admitted to the Technology Leadership Focus, you must:

- Have not yet completed CSC207H1 prior to beginning Focus requirements.
- Complete an application and/or interview. Application information will be provided to all Computer Science Specialist and Major and Data Science Specialist program applicants during the Round 1 program admission period.
- Students who complete the Technology Leadership Focus application and/or interview and are admitted to a Computer Science Specialist or Major or Data Science Specialist program will be considered for admission to the Focus.

Students admitted to the Focus will be enrolled in an industry-engaged version of CSC207H1 in the Fall term. This industry-engaged version of CSC207H1 is a required component of the Focus, and is a prerequisite to CSC308H1.

Completion Requirements:

1. Industry-engaged version of CSC207H1: Software Design
2. CSC308H1: Technology Leadership
3. 0.5 credits from CSC301H1, CSC302H1, CSC309H1, CSC318H1, and CSC343H1
4. 1.0 credits including:
 - a. Up to 0.5 credits from CSC301H1, CSC302H1, CSC309H1, CSC318H1, and CSC343H1 (if not taken in list 3)
 - b. Up to 1.0 credits from CSC404H1, CSC413H1, CSC417H1, CSC419H1, CSC428H1, CSC454H1, CSC485H1, CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1

Additionally, participating students will be invited to participate in co-curricular community-building and networking activities. These co-curricular activities will provide opportunities for students to meet leaders in the field and to reflect on their own leadership development.

Focus in Technology Leadership (Computer Science Major) - ASFOC1689U

The Technology Leadership Focus combines the development of applied Computer Science skills with an exploration of the core aspects of leadership within the context of the technology sector.

Students who complete the Technology Leadership Focus will be well-prepared to step into leadership roles and navigate the complexities of the tech industry.

To enrol in the Technology Leadership Focus, you must meet eligibility requirements, apply and be admitted, as detailed in "Enrolment Requirements."

Enrolment Requirements:

To be admitted to the Technology Leadership Focus, you must:

- Have not yet completed CSC207H1 prior to beginning Focus requirements.
- Complete an application and/or interview. Application information will be provided to all Computer Science Specialist and Major and Data

Science Specialist program applicants during the Round 1 program admission period.

- Students who complete the Technology Leadership Focus application and/or interview and are admitted to a Computer Science Specialist or Major or Data Science Specialist program will be considered for admission to the Focus.

Students admitted to the Focus will be enrolled in an industry-engaged version of CSC207H1 in the Fall term. This industry-engaged version of CSC207H1 is a required component of the Focus, and is a prerequisite to CSC308H1.

Completion Requirements:

1. Industry-engaged version of CSC207H1: Software Design
2. CSC308H1: Technology Leadership
3. 0.5 credit from CSC301H1, CSC302H1, CSC309H1, CSC318H1, and CSC343H1
4. 1.0 credit including:
 - a. Up to 0.5 credit from CSC301H1, CSC302H1, CSC309H1, CSC318H1, and CSC343H1 (if not taken in list 3)
 - b. Up to 1.0 credit from CSC404H1, CSC413H1, CSC417H1, CSC419H1, CSC428H1, CSC454H1, CSC485H1, CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1

Additionally, participating students will be invited to participate in co-curricular community-building and networking activities. These co-curricular activities will provide opportunities for students to meet leaders in the field and to reflect on their own leadership development.

Focus in Theory of Computation (Specialist) - ASFOC1689I

(3.5 credits)

Why is it easy to sort a list of numbers, but hard to break Internet encryption schemes? Is finding a solution to a problem harder than checking that a solution is correct? Can we find good approximate solutions, even when the exact solutions seem out of reach? Theory of Computation studies the inherent complexity of fundamental algorithmic problems. On one hand, we develop ground-breaking efficient data structures and algorithms. On the other, we have yet to develop good algorithms for many problems despite decades of effort, and for these problems we strive to prove no time- or space-efficient algorithms will ever solve them. While the field has seen some successful impossibility results, there are still many problems (such as those underlying modern

cryptography and security) for which we do not know either efficient algorithms or strong lower bounds!

This focus takes a rigorous, mathematical approach to computational problem-solving: students will gain a deep understanding of algorithm paradigms and measures of problem complexity, and develop the skills necessary to convey abstract ideas with precision and clarity. Many of our students go on to graduate studies and sophisticated algorithmic work in industry. This focus has natural ties with many branches of mathematics and is the foundation of many computer science fields. Consequently, our students often apply their theoretical knowledge to other fields of interest.

We advise you to take CSC240H1 and CSC265H1, the enriched versions of CSC236H1 and CSC263H1, because these courses are particularly well-aligned with the goals of this focus and will best prepare you for advanced theory courses. However, students who have already taken CSC236H1/ CSC236H5/ CSCB36H3 or CSC263H1/ CSC263H5/ CSCB63H3 are also welcome to enrol in the focus.

Enrolment Requirements:

Enrolment in the Computer Science Specialist Program (ASSPE1689).

Completion Requirements:

1. CSC463H1
2. 3.0 credits from the following:
 - CSC304H1, CSC310H1, CSC336H1, CSC436H1, CSC438H1, MAT309H1, CSC448H1, CSC473H1, MAT332H1, MAT344H1
 - at UTM: MAT302H5
 - graduate courses: CSC2221H, CSC2240H, CSC2401H, CSC2410H, CSC2412H, CSC2420H, CSC2421H, CSC2426H, CSC2451H, CSC2556H (Note that students must contact cs.undergrad@utoronto.ca during the course enrolment period to request permission to take a graduate course.)

Students who complete an independent study project (CSC494H1/ CSC495H1) under the supervision of a faculty member from the Theory group may request to substitute one of CSC494H1/ CSC495H1 for one of the courses in list 2 above. This request must be made directly to the department's Undergraduate Office.

Students who complete a graduate Topics course in Theory may request to count it towards the completion of list 2 above. This request must be made directly to the department's Undergraduate Office.

Focus in Theory of Computation (Major) - ASFOC1689R

(3.5 credits)

Why is it easy to sort a list of numbers, but hard to break Internet encryption schemes? Is finding a solution to a problem harder than checking that a solution is correct? Can we find good approximate solutions, even when the exact solutions seem out of reach? Theory of Computation studies the inherent complexity of fundamental algorithmic problems. On one hand, we develop ground-breaking efficient data structures and algorithms. On the other, we have yet to develop good algorithms for many problems despite decades of effort, and for these problems we strive to prove no time- or space-efficient algorithms will ever solve them. While the field has seen some successful impossibility results, there are still many problems (such as those underlying modern cryptography and security) for which we do not know either efficient algorithms or strong lower bounds!

This focus takes a rigorous, mathematical approach to computational problem-solving: students will gain a deep understanding of algorithm paradigms and measures of problem complexity, and develop the skills necessary to convey abstract ideas with precision and clarity. Many of our students go on to graduate studies and sophisticated algorithmic work in industry. This focus has natural ties with many branches of mathematics and is the foundation of many computer science fields. Consequently, our students often apply their theoretical knowledge to other fields of interest.

We advise you to take [CSC240H1](#) and [CSC265H1](#), the enriched versions of [CSC236H1](#) and [CSC263H1](#), because these courses are particularly well-aligned with the goals of this focus and will best prepare you for advanced theory courses. However, students who have already taken [CSC236H1](#)/ [CSC236H5](#)/ [CSCB36H3](#) or [CSC263H1](#)/ [CSC263H5](#)/ [CSCB63H3](#) are also welcome to enrol in the focus.

Enrolment Requirements:

Enrolment in the Computer Science Major Program (ASMAJ1689).

Completion Requirements:

1. [CSC373H1](#), [CSC463H1](#)
2. 2.5 credits from the following:
 - [CSC304H1](#), [CSC310H1](#), [CSC336H1](#), [CSC436H1](#), [CSC438H1](#)/ [MAT309H1](#), [CSC448H1](#), [CSC473H1](#), [MAT332H1](#), [MAT344H1](#)
 - at UTM: [MAT302H5](#)

- graduate courses: [CSC2221H](#), [CSC2240H](#), [CSC2401H](#), [CSC2410H](#), [CSC2412H](#), [CSC2420H](#), [CSC2421H](#), [CSC2426H](#), [CSC2451H](#), [CSC2556H](#) (Note that students must contact cs.undergrad@utoronto.ca during the course enrolment period to request permission to take a graduate course.)

Students who complete an independent study project ([CSC494H1](#)/ [CSC495H1](#)) under the supervision of a faculty member from the Theory group may request to substitute one of [CSC494H1](#)/ [CSC495H1](#) for one of the courses in list 2 above. This request must be made directly to the department's Undergraduate Office.

Students who complete a graduate Topics course in Theory may request to count it towards the completion of list 2 above. This request must be made directly to the department's Undergraduate Office.

Focus in Web and Internet Technologies (Specialist) - ASFOC1689J

(3.0 credits)

The Web and Internet Technologies focus introduces students to the systems and algorithms that power today's large-scale web and Internet applications such as search engines, social networking applications, web data mining applications, and content distribution networks. The focus covers the architecture of the systems, algorithms and protocols, and machine learning techniques underlying these applications.

Students who wish to pursue the Focus in Web and Internet Technologies should have a solid understanding of statistics, be good programmers, and have a good understanding of data structures and algorithm design.

To get practical experience, students pursuing the web and Internet technologies focus are encouraged to do either a [CSC494H1](#)/ [CSC495H1](#): Computer Science Project course or a summer USRA/UTEA project in web and internet technologies.

Enrolment Requirements:

Enrolment in the Computer Science Specialist Program (ASSPE1689).

Completion Requirements:

Required courses:

1. STA238H1/ STA248H1 / STA261H1, CSC309H1, CSC311H1, CSC343H1, CSC457H1/ CSC458H1
2. 0.5 credit from the following list: CSC413H1, CSC443H1, CSC457H1 (if not taken in list 2), CSC458H1 (if not taken in list 2)

Suggested Related Courses:

1. Courses offered at UTM: CSC347H5, CSC423H5, CSC427H5
2. ECE568H1
3. ENV281H1, ENV381H1

Focus in Web and Internet Technologies (Major) - ASFOC1689S

(3.0 credits)

The Web and Internet Technologies focus introduces students to the systems and algorithms that power today's large-scale web and Internet applications such as search engines, social networking applications, web data mining applications, and content distribution networks. The focus covers the architecture of the systems, algorithms and protocols, and machine learning techniques underlying these applications.

Students who wish to pursue the Focus in Web and Internet Technologies should have a solid understanding of statistics, be good programmers, and have a good understanding of data structures and algorithm design.

To get practical experience, students pursuing the web and Internet technologies focus are encouraged to do either a CSC494H1/ CSC495H1: Computer Science Project course or a summer USRA/UTEA project in web and internet technologies.

Enrolment Requirements:

Enrolment in the Computer Science Major Program (ASMAJ1689).

Completion Requirements:

1. CSC209H1
2. 2.5 credits from STA238H1/ STA248H1/ STA261H1, CSC309H1, CSC311H1, CSC343H1, CSC413H1, CSC443H1, CSC457H1, CSC458H1

Suggested Related Courses:

- Courses offered at UTM: CSC347H5, CSC423H5, CSC427H5
- ECE568H1
- ENV281H1, ENV381H1

Regarding Computer Science Courses

Courses Equivalent to CSC148H1 and CSC165H1/CSC240H1

Only grades from CSC148H1 and CSC165H1/ CSC240H1 (completed on the St. George campus) will be accepted for purposes of application to the Computer Science Specialist, Major and Minor and the Data Science Specialist. However, equivalent courses will be accepted for purposes of prerequisites for course enrolment.

Enrolment Notes

1. **Priority enrolment:** Most CSC courses at the 200-level and above offer priority enrolment to students in Computer Science programs. Consult the Timetable for details.
2. **Limits to upper-level courses:** Students not enrolled in Computer Science Major or Specialist programs are limited to a maximum of three 300+ level CSC/ECE half-credit courses (1.5 credits). Students enrolled in the Engineering Science Robotics Engineering, Electrical and Computer Engineering, or Machine Intelligence Majors may take a maximum of four 300+ level courses in the Department of Computer Science (CSC). Students enrolled in the Arts & Science Bioinformatics and Computational Biology Specialist may take a maximum of five 300+ level CSC/ECE half-credit courses (2.5 credits).
3. **Completion of CS Minor without program enrolment:** Students who complete the requirements of CS Minor and are not enrolled in the CS Minor program may request to be enrolled in the CS Minor during their final term of studies. Please contact cs.undergrad@utoronto.ca for more information.
4. **Prerequisites:** For Arts & Science students, no requests to waive prerequisites are considered in 200-level courses except for CSC240H1 and CSC265H1, where appropriate, and students without prerequisites will be removed from the course. For upper-level courses, students without prerequisites must obtain permission to remain enrolled in the course through the department's prerequisite waiver process. Please contact cs.undergrad@utoronto.ca for information about the prerequisite waiver process.
5. **Students with transfer credits:** If you have transfer credits in Computer Science, or a similar subject, for courses done at another university or college, contact our Undergraduate Office

(cs.undergrad@utoronto.ca) for advice on choosing courses. Also ask for advice even if you don't have transfer credits yet but are considering degree study at the University of Toronto.

6. **First-Year Foundations Seminars:** First-Year Foundations Seminars are open only to newly-admitted, Faculty of Arts & Science students (3.5 credits or less). They are full-credit or half-credit courses that focus on discussion of issues, questions and controversies surrounding a particular discipline (or several disciplines) in a small-group setting that encourages the development of critical thinking, writing skills, oral presentation and research methods. FYF seminars are as rigorous and demanding as any other first-year course and require in addition the acquisition of those skills expected of successful undergraduate students. With a maximum enrolment of 30 students each, they are an ideal way to have an enjoyable and challenging small-class experience in your first year. First-Year Foundations Seminars count as 0.5 or 1.0 of the 20.0 credits required for an HBA, HBSc or BCom and can be counted towards the breadth requirement.

Advice on choosing courses towards a Major in Computer Science

A Major program in any discipline may form part (but not the whole) of your degree requirements. The Major program in Computer Science is designed to include a solid grounding in the essentials of Computer Science, followed by options that let you explore one or a few topics more deeply. You will also realize what areas you have not studied and be ready to explore them if your interests change after completing the Major.

Computer Science Courses

CSC104H1 - Computational Thinking

Hours: 24L/12T

Humans have solved problems for millennia on computing devices by representing data as diverse numbers, text, images, sound and genomes, and then transforming the data. A gentle introduction to designing programs (recipes) for systematically solving problems that crop up in diverse domains such as science, literature, and graphics. Social and intellectual issues raised by computing. Algorithms, hardware, software, operating systems, the limits of computation.

To give you freedom to choose your path through Computer Science, we have designed the Major to include a minimal set of required courses. There are some courses that we think you ought to consider carefully as you make those choices. CSC373H1 is fundamental to many more advanced Computer Science topics, where designing appropriate algorithms is central. CSC209H1 is a prerequisite to effective work in many application areas. Additionally, you may wish to select a Focus as part of your Major program.

A significant role of the Major is to allow you to integrate your studies in Computer Science and another discipline. For example, many Computer Science students are also interested in statistics, economics, physics or mathematics. In those cases, it makes sense to enrol in a Major in one discipline and either a Major or a Specialist in the other. If your interests are evenly balanced, the obvious choice is to do two Majors, and that is what we assume here. Explore some more suggestions from the department about combining Computer Science with other programs.

If you are doing two Majors in related disciplines, you might want to consult your college registrar's office for advice on satisfying the degree requirements with overlapping Majors.

A Major program may not be enough to prepare you for graduate study in Computer Science, though a complete Specialist is not typically required. Consult the undergraduate office (cs.undergrad@utoronto.ca) for advice and referrals if you are a student in the Major considering graduate study in Computer Science.

Note: you may not take this course concurrently with any Computer Science course, but you may take CSC108H1/CSC148H1 after CSC104H1.

Exclusion: JCC250H1; Any CSC course except CSC196H1, CSC197H1, CSC199H1, AP, IB, CAPE or GCE Transfer Credits.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC108H1 - Introduction to Computer Programming

Hours: 36L

Programming in a language such as Python. Elementary data types, lists, maps. Program structure: control flow, functions, classes, objects, methods. Algorithms and

problem solving. Searching, sorting, and complexity. Unit testing. Floating-point numbers and numerical computation. No prior programming experience required.

NOTE: You may take CSC148H1 after CSC108H1. You may not take CSC108H1 in the same term as, or after taking, any of CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1.

Exclusion: CSC110Y1, CSC111H1, CSC120H1, CSC121H1, CSC148H1, CSC108H5, CSC148H5, CSCA08H3, CSCA20H3, CSCA48H3

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC110Y1 - Foundations of Computer Science I

Hours: 72L/24T

An introduction to the field of computer science combining the tools and techniques of programming (using the Python programming language) with rigorous mathematical analysis and reasoning. Topics include: data representations; program control flow (conditionals, loops, exceptions, functions); mathematical logic and formal proof; representation of floating-point numbers and numerical computation; algorithms and running time analysis; software engineering principles (formal specification and design, testing and verification). Prior programming experience is not required to succeed in this course.

This course is restricted to students in the first year Computer Science admission stream, and is only offered in the Fall term. Other students planning to pursue studies in computer science should enrol in CSC108H1, CSC148H1, and CSC165H1/ CSC240H1.

Exclusion: CSC108H1, CSC148H1, CSC165H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC111H1 - Foundations of Computer Science II

Hours: 36L/24T

A continuation of CSC110Y1 to extend principles of programming and mathematical analysis to further topics in computer science.

Topics include: object-oriented programming (design principles, encapsulation, composition and inheritance); binary representation of numbers; recursion and mathematical induction; abstract data types and data

structures (stacks, queues, linked lists, trees, graphs); the limitations of computation.

This course is restricted to students in the first year Computer Science admission stream, and is only offered in the Winter term. Other students planning to pursue studies in computer science should enrol in CSC108H1, CSC148H1, and CSC165H1/ CSC240H1.

Prerequisite: CSC110Y1 (70% or higher)

Exclusion: CSC108H1, CSC148H1, CSC165H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC148H1 - Introduction to Computer Science

Hours: 36L/24P

Abstract data types and data structures for implementing them. Linked data structures. Encapsulation and information-hiding. Object-oriented programming. Specifications. Analyzing the efficiency of programs. Recursion. This course assumes programming experience as provided by CSC108H1. Students who already have this background may consult the Computer Science Undergraduate Office for advice about skipping CSC108H1. Practical (P) sections consist of supervised work in the computing laboratory. These sections are offered when facilities are available, and attendance is required. Note: Students may request to move from CSC148H1 to CSC108H1 after the last day to add classes and before a deadline set by the course instructors, if space is available in CSC108H1 at the time of the request.

Prerequisite: CSC108H1/ (equivalent programming experience)

Exclusion: CSC111H1, CSC207H1, CSC148H5, CSC207H5, CSCA48H3, CSCB07H3

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC165H1 - Mathematical Expression and Reasoning for Computer Science

Hours: 36L/12T

Introduction to abstraction and rigour. Informal introduction to logical notation and reasoning. Understanding, using and developing precise expressions of mathematical ideas, including definitions and theorems. Structuring proofs to improve presentation and comprehension. General problem-solving techniques. Representation of floating-point numbers. Running time analysis of iterative programs. Formal definition of Big-Oh. Diagonalization, the Halting Problem, and some

reductions. Unified approaches to programming and theoretical problems.

Corequisite: CSC108H1/ CSC120H1/(equivalent programming experience)

Exclusion: CSC111H1, CSC236H1, CSC240H1, MAT102H5, CSC236H5, CSCA67H3, MATA67H3, CSCB36H3

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC194H1 - Impactful Video Game Design

Previous Course Number: PMU199H1

Hours: 24S

An introduction to the fundamental design and development principles for digital games, and their potential for real-world impact and social betterment. Topics include game design history & social issues, narrative and gameplay elements, human-computer interaction and project management. Strong focus on how design elements affect player engagement and learning. This course requires students to create a game as part of the course, with practical assignments and a final project that reflect industry milestones. No programming is required for this course. Please note that not all CSC first-year seminars will be offered in a given year; please check the Timetable for current offerings. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CSC196H1 - Great Ideas in Computing

Hours: 36L

We will pursue the general (and very debatable) theme of GREAT IDEAS in COMPUTING (including some surprising algorithms). The ambitious goal is to try to identify some of the great ideas that have significantly influenced the field and have helped to make computing so pervasive. We will concentrate on mathematical, algorithmic and software ideas with the understanding that the importance and usefulness of these ideas depends upon (and often parallels) the remarkable ideas and progress in computing and communications hardware. As we will see, many of the great ideas were against the "prevailing opinion". The list of topics we shall discuss will depend to some degree on the background and interests of the class. Please note that not all CSC first-year seminars will be offered in a given year; please check the Timetable for current offerings. Restricted to first-year students. Not eligible for CR/NCR option.

Recommended Preparation: Some knowledge of probability theory

Breadth Requirements: Society and its Institutions (3)

CSC197H1 - Big Data and Privacy

Hours: 24S

The rapid advance of technology has brought remarkable changes to how we conduct our daily lives, from how we communicate, consume news and data, and purchase goods. As we increase our online activity, so too do we increase the amount of personal data that we're sharing, often without realizing it. The questions of exactly what data is being collected, who is collecting and accessing this data, and how this data is being used, have significant implications for both individuals and our larger social and political institutions. Organized by a wide variety of case studies drawn from current events, we'll study how personal data can be collected and tracked, how personal and social factors may influence our own decisions about whether and how much to share our data, and what broader political and legal tools are used to either protect or subvert individual privacy. Please note that not all CSC first-year seminars will be offered in a given year; please check the Timetable for current offerings. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

CSC199H1 - Intelligence, Artificial and Human

Hours: 36S

What is human intelligence? How close are we to replicating it? How productive/reductive is the brain-computer analogy? What ethical challenges are posed by AI on workers, society, and the environment? Can we put a hold on "progress"? Is Silicon Valley the seat of a new techno-religion? What can they teach us about today's research priorities? What insight (or inspiration) can we get from works of science fiction about the future of human-AI interaction? Through reading discussion, written assignment, and workshops, this seminar will present students with the opportunity to integrate their computer science interests with philosophy, history, and literature. *There is an equivalent course offered by St. Michael's College. Students may take one or the other but not both.* Please note that not all CSC first-year seminars will be offered in a given year; please check the Timetable for current offerings. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: SMC199H1 (Intelligence, Artificial and Human)

Breadth Requirements: Society and its Institutions (3)

CSC207H1 - Software Design

Hours: 24L/24T

An introduction to software design and development concepts, methods, and tools using a statically-typed object-oriented programming language such as Java. Topics from: version control, unit testing, refactoring, object-oriented design and development, design patterns, advanced IDE usage, regular expressions, and reflection.

Prerequisite: 60% or higher in [CSC148H1](#) / 60% or higher in [CSC111H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC209H1 - Software Tools and Systems Programming

Hours: 24L/12T

Software techniques in a Unix-style environment, using scripting languages and a machine-oriented programming language (typically C). What goes on in the operating system when programs are executed. Core topics: creating and using software tools, pipes and filters, file processing, shell programming, processes, system calls, signals, basic network programming.

Prerequisite: [CSC207H1](#) / [CSC207H5](#) / [CSCB07H3](#)

Exclusion: [CSC372H1](#), [CSC369H1](#), [CSC469H1](#), [CSC209H5](#), [CSC369H5](#), [CSC469H5](#), [CSCB09H3](#), [CSCC69H3](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC236H1 - Introduction to the Theory of Computation

Hours: 24L/12T

The application of logic and proof techniques to Computer Science. Mathematical induction; correctness proofs for iterative and recursive algorithms; recurrence equations and their solutions; introduction to automata and formal languages. This course assumes university-level experience with proof techniques and algorithmic complexity as provided by [CSC165H1](#). Very strong students who already have this experience (e.g. successful completion of [MAT157Y1](#)) may consult the undergraduate office about proceeding directly into [CSC236H1](#) or [CSC240H1](#).

Prerequisite: (60% or higher in [CSC148H1](#), 60% or higher in [CSC165H1](#)) / (60% or higher in [CSC111H1](#))

Exclusion: [CSC240H1](#), [CSC236H5](#), [CSCB36H3](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC240H1 - Enriched Introduction to the Theory of Computation

Hours: 24L/12T

The rigorous application of logic and proof techniques to Computer Science. Propositional and predicate logic; mathematical induction and other basic proof techniques; correctness proofs for iterative and recursive algorithms; recurrence equations and their solutions (including the Master Theorem); introduction to automata and formal languages. This course covers the same topics as [CSC236H1](#), together with selected material from [CSC165H1](#), but at a faster pace, in greater depth and with more rigour, and with more challenging assignments. Greater emphasis will be placed on proofs and theoretical analysis. Certain topics briefly mentioned in [CSC165H1](#) or [CSC236H1](#) may be covered in more detail in this course, and some additional topics may also be covered.

Prerequisite: [CSC110Y1](#) (with a minimum mark of at least 70%) / [CSC165H1](#) (with a minimum mark of at least 85%) / students with a strong mathematical background who have not completed [CSC110Y1](#) or [CSC165H1](#) may enrol in [CSC240H1](#) as an enriched alternative to [CSC165H1](#)

Corequisite: Corequisite: [CSC111H1](#) / [CSC148H1](#); [MAT137Y1](#) / [MAT157Y1](#). [MAT135H1](#) and [MAT136H1](#) do not provide appropriate preparation for [CSC240H1](#). Students with programming experience equivalent to [CSC111H1](#) / [CSC148H1](#) or who have completed math courses equivalent to [MAT137Y1](#) / [MAT157Y1](#) may apply for a corequisite waiver.

Exclusion: [CSC236H1](#), [CSC263H1](#) / [CSC265H1](#), [CSC236H5](#), [CSC263H5](#), [CSCB36H3](#), [CSCB63H3](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

JCC250H1 - Computing for Science

Previous Course Number: CSC198H1

Hours: 24L/24T

Computational skills for the modern practice of basic and applied science. Applied computer programming with an emphasis on practical examples related to the simulation of matter, drawing from scientific disciplines including chemistry, biology, materials science, and physics. Studio format with a mixture of lecture, guided programming, and open scientific problem solving. Students will be exposed to Python numerical and data analysis libraries. No prior programming experience is required.

Prerequisite: CHM135H1/ CHM136H1/ CHM151Y1, 0.5 credit in MAT (excluding FYF courses)

Exclusion: Any CSC course except CSC104H1, CSC196H1, CSC197H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC258H1 - Computer Organization

Hours: 36L/36P

Computer structures, machine languages, instruction execution, addressing techniques, and digital representation of data. Computer system organization, memory storage devices, and microprogramming. Block diagram circuit realizations of memory, control and arithmetic functions. There are a number of laboratory periods in which students conduct experiments with digital logic circuits.

Prerequisite: (60% or higher in (CSC148H1/ CSC148H5/ CSCA48H3), 60% or higher in (CSC165H1/ CSC240H1/ MAT102H5/ MATA67H3/ CSCA67H3))/ 60% or higher in CSC111H1

Exclusion: CSC258H5, CSCB58H3

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC263H1 - Data Structures and Analysis

Hours: 24L/12T

Algorithm analysis: worst-case, average-case, and amortized complexity. Expected worst-case complexity, randomized quicksort and selection. Standard abstract data types, such as graphs, dictionaries, priority queues, and disjoint sets. A variety of data structures for implementing these abstract data types, such as balanced search trees, hashing, heaps, and disjoint forests. Design and comparison of data structures. Introduction to lower bounds.

Prerequisite: CSC236H1/ CSC240H1/ CSC236H5/ CSCB36H3/ APS105H1/ APS106H1/ ESC180H1/ STA237H1/ STA247H1/ STA255H1/ STA257H1/ STAB57H3/ STAB52H3/ ECE302H1/ STA286H1/ CHE223H1/ CME263H1/ MIE231H1/ MIE236H1/ MSE238H1/ STA286H1

Exclusion: CSC265H1, CSC263H5, CSCB63H3

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC265H1 - Enriched Data Structures and Analysis

Hours: 24L/12T

This course covers the same topics as CSC263H1, but at a faster pace, in greater depth and with more rigour, and with more challenging assignments. Greater emphasis will be placed on proofs, theoretical analysis, and creative problem-solving. Certain topics briefly mentioned in CSC263H1 may be covered in more detail in this course, and some additional topics may also be covered.

Prerequisite: CSC240H1 (with a minimum mark of 70%)/ (CSC236H1 (with a minimum mark of 85%), MAT377H1/ STA237H1/ STA247H1/ STA255H1/ STA257H1). Notes: Students who have completed CSC240H1 must enrol in MAT377H1/ STA237H1/ STA247H1/ STA255H1/ STA257H1 concurrently with CSC265H1, if they have not already completed one of those courses. Students who have completed additional 200- or 300-level Mathematics courses may submit a prerequisite waiver request for permission to complete the statistics requirement as a co-requisite or to consider other courses as appropriate preparation for CSC265H1.

Exclusion: CSC263H1, CSC263H5, CSCB63H3

Breadth Requirements: The Physical and Mathematical Universes (5)

JSC270H1 - Data Science I

Hours: 24L/24P

This course is restricted to students in the Data Science Specialist program. Data exploration and preparation; data visualization and presentation; and computing with data will be introduced. Professional skills, such as oral and written communication, and ethical skills for data science will be introduced. Data science workflows will be integrated throughout the course. These topics will be explored through case studies and collaboration with researchers in other fields.

Prerequisite: STA257H1, CSC207H1

Corequisite: STA261H1, MAT237Y1/ MAT257Y1, CSC236H1/ CSC240H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC271H1 - Computational Principles and Methods for Data Science

Hours: 24L/12T

Computational tools and methods are a cornerstone of the data scientist's toolbox, useful in a variety of applications

and disciplines. This course builds on introductory data science and computer programming skills to equip students with several of these tools and methods. Computational methods for gathering and storing data via web APIs or web scraping or other formats; data pre-processing methods useful in data science algorithms; using version control and other tools to implement reproducible data science workflows; using web tools to communicate data science results and build data science products; creating, distributing, and accessing open-source data science software libraries. This course assumes prerequisite experience in computer programming, but does not require any additional knowledge or prior experience with any of the tools or methods covered.

Prerequisite: CSC108H1/ CSC110Y1/ CSC148H1

Exclusion: CSC207H1/ ECO225H1

Recommended Preparation: EEB125H1/ GGR274H1/ ENG286H1/ STA130H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC299H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

CSC299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

CSC300H1 - Computers and Society

Hours: 24L/12T

This course offers a concise introduction to ethics in computing, distilled from the ethical and social discussions carried on by today's academic and popular commentators. This course covers a wide range of topics within this area including the philosophical framework for analyzing computer ethics; the impact of computer technology on security, privacy and intellectual property, digital divide, and gender and racial discrimination; the ethical tensions with Artificial Intelligence around future of work and humanity, the emerging role of online social

media over voice, inclusion, and democracy; and the environmental consequences of computing.

Prerequisite: 0.5 credit in CSC

Exclusion: CSC300H5, CSCD03H3. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: Society and its Institutions (3)

CSC301H1 - Introduction to Software Engineering

Hours: 24L/12T

An introduction to agile development methods appropriate for medium-sized teams and rapidly-moving projects. Basic software development infrastructure; requirements elicitation and tracking; estimation and prioritization; teamwork skills; basic modeling; design patterns and refactoring; discussion of ethical issues, and professional responsibility.

Prerequisite: CSC209H1, CSC263H1/ CSC265H1

Exclusion: CSC301H5, CCCC01H3. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC302H1 - Engineering Large Software Systems

Hours: 24L/12T

An introduction to the theory and practice of large-scale software system design, development, and deployment. Project management; advanced UML; reverse engineering; requirements inspection; verification and validation; software architecture; performance modelling and analysis.

Prerequisite: CSC301H1

Exclusion: CSCD01H3. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC303H1 - Social and Information Networks

Hours: 24L/12T

A course on how networks underlie the social, technological, and natural worlds, with an emphasis on developing intuitions for broadly applicable concepts in network analysis. Topics include: introductions to graph theory, network concepts, and game theory; social networks; information networks; the aggregate behaviour of markets and crowds; network dynamics; information diffusion; popular concepts such as "six degrees of separation," the "friendship paradox," and the "wisdom of crowds."

Prerequisite: [CSC263H1](#)/ [CSC265H1](#)/ [CSC263H5](#)/ [CSCB63H3](#), [STA247H1](#)/ [STA255H1](#)/ [STA257H1](#)/ [ECO227Y1](#)/ [STA237H1](#)/ [STAB52H3](#)/ [STAB57H3](#), [MAT223H1](#)/ [MAT240H1](#)

Exclusion: [CSCC46H3](#). NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC304H1 - Algorithmic Game Theory and Mechanism Design

Hours: 24L/12P

A mathematical and computational introduction to game theory and mechanism design. Analysis of equilibria in games and computation of price of anarchy. Design and analysis mechanisms with monetary transfers (such as auctions). Design and analysis of mechanisms without monetary transfers (such as voting and matching). This course is intended for economics, mathematics, and computer science students.

Prerequisite: [STA247H1](#)/ [STA255H1](#)/ [STA257H1](#)/ [STA237H1](#)/ [PSY201H1](#)/ [ECO227Y1](#), ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: [MAT223H1](#), [CSC373H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC308H1 - Technology Leadership

Hours: 36L

An exploration of the core aspects of leadership within the context of the software-oriented industry and academic research sectors. Topics include corporate mission, vision, and stakeholder roles in the technology sector; strategic planning; competitive technology market analysis; decision-making; a practical awareness of financial documents; contract negotiation; equity and financing in technology business growth; business-to-business (B2B) and business-to-consumer (B2C) software markets; principles of effective communication and influence in a corporate setting; professional development strategies for a software-oriented career; crafting an impactful elevator pitch; understanding of employment rights. The approach ensures that graduates are well-prepared to step into leadership roles and navigate the complexities of the tech industry and of academic research.

Students must be enrolled in the Focus in Technology Leadership to enrol in this course.

Prerequisite: [CSC207H1](#)

Breadth Requirements: Society and its Institutions (3)

CSC309H1 - Programming on the Web

Hours: 24L/12T

An introduction to software development on the web. Concepts underlying the development of programs that operate on the web; survey of technological alternatives; greater depth on some technologies. Operational concepts of the internet and the web, static client content, dynamic client content, dynamically served content, n-tiered architectures, web development processes, and security on the web.

Prerequisite: [CSC209H1](#)/ [CSC209H5](#)/ [CSCB09H3](#)/ [ESC180H1](#)/ [ESC190H1](#)/ [CSC190H1](#)/ ([APS105H1](#), [ECE244H1](#))

Exclusion: [CSC309H5](#), [CSCC09H3](#). NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/ 400-level CSC/ ECE courses.

Recommended Preparation: [CSC343H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC310H1 - Information Theory

Hours: 24L/12T

Measuring information. Entropy, mutual information and their meaning. Probabilistic source models and the source coding theorem. Data compression. Noisy channels and the channel coding theorem. Error correcting codes and their decoding. Applications to inference, learning, data structures and communication complexity.

Prerequisite: 60% or higher in CSC148H1/ 60% or higher in CSC111H1/ ESC190H1, CSC263H1/ CSC265H1/ ECE345H1/ ECE358H1/ MIE245H1, MAT223H1/ MAT240H1/ MAT185H1/ MAT188H1

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC311H1 - Introduction to Machine Learning

Previous Course Number: CSC411H1

Hours: 24L/12T

An introduction to methods for automated learning of relationships on the basis of empirical data. Classification and regression using nearest neighbour methods, decision trees, linear models, and neural networks. Clustering algorithms. Problems of overfitting and of assessing accuracy. Basics of reinforcement learning.

Prerequisite: CSC207H1/ APS105H1/ APS106H1/ ESC180H1/ CSC180H1; MAT235Y1/ MAT237Y1/ MAT257Y1/ (minimum of 77% in MAT135H1 and MAT136H1/ (minimum of 73% in MAT137Y1/ (minimum of 67% in MAT157Y1/ MAT291H1/ MAT294H1/ (minimum of 77% in MAT186H1, MAT187H1/ (minimum of 73% in MAT194H1, MAT195H1/ (minimum of 73% in ESC194H1, ESC195H1); MAT223H1/ MAT240H1/ MAT185H1/ MAT188H1; STA237H1/ STA247H1/ STA255H1/ STA257H1/ STA286H1/ CHE223H1/ CME263H1/ MIE231H1/ MIE236H1/ MSE238H1/ ECE286H1

Exclusion: CSC411H1, STA314H1, ECE421H1, CSC311H5, CSC411H5, CSCC11H3. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: MAT235Y1/ MAT237Y1/ MAT257Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC316H1 - Data Visualization: Foundations and Advanced Programming

Hours: 24L/12T

The amount and complexity of information produced in science, engineering, business, and everyday human activity is increasing at staggering rates. The goal of this course is to expose you to visual representation methods and techniques that increase the understanding of complex data. Good visualizations not only present a visual interpretation of data, but do so by improving comprehension, communication, and decision making.

In this course you will learn how the human visual system processes and perceives images, good design practices for visualization, methods for visualization of data from a variety of fields, and programming of interactive web-based visualizations, using front-end libraries (e.g., D3 or Vega).

Prerequisite: CSC207H1

Recommended Preparation: Javascript knowledge helpful, but not required

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC317H1 - Computer Graphics

Previous Course Number: CSC418H1

Hours: 24L/12T

Identification and characterization of the objects manipulated in computer graphics, the operations possible on these objects, efficient algorithms to perform these operations, and interfaces to transform one type of object to another. Display devices, display data structures and procedures, graphical input, object modelling, transformations, illumination models, primary and secondary light effects; graphics packages and systems. Students, individually or in teams, implement graphical algorithms or entire graphics systems.

Prerequisite: MAT235Y1/ MAT237Y1/ MAT257Y1/ MAT291H1/ MAT292H1/ MAT294H1/ (MAT232H5/ MAT233H5, MAT236H5/ (MATB41H3, MATB42H3); MAT223H1/ MAT240H1/ MAT223H5/ MATA22H3/ MAT185H1/ MAT188H1; CSC209H1/ CSC209H5/ CSCB09H3/ proficiency in C or C++/ APS105H1/ ESC180H1/ CSC180H1

Exclusion: CSC418H1, CSCD18H3. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: MAT244H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC318H1 - The Design of Interactive Computational Media

Hours: 24L/24T

User-centred design of interactive systems; methodologies, principles, and metaphors; task analysis. Interdisciplinary design; the role of graphic design, industrial design, and the behavioural sciences. Interactive hardware and software; concepts from computer graphics. Typography, layout, colour, sound, video, gesture, and usability enhancements. Classes of interactive graphical media; direct manipulation systems, extensible systems, rapid prototyping tools. Students work on projects in interdisciplinary teams.

Prerequisite: Any 0.5 credit in CSC/ [ESC180H1](#)/ [ESC190H1](#)/ [APS105H1](#)/ [APS106H1](#)

Exclusion: CSC318H5, [CSCC10H3](#). NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: [CSC300H1](#) provides useful background for work in [CSC318H1](#), so if you plan to take [CSC300H1](#) then you should do it before [CSC318H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC320H1 - Introduction to Visual Computing

Hours: 24L/12T

A first-principles introduction to the acquisition and computational processing of 2D images, aimed at students interested in computer vision, digital photography and computer graphics. The course serves as a stepping stone for tackling more advanced courses in those subjects and covers four broad themes: (1) mathematical and engineering foundations: introducing key concepts from geometry; multivariate calculus; linear algebra; image and signal processing; and human vision, (2) algorithms for low-level computer vision: image warping, morphing and stitching; image enhancement; image scissoring and inpainting; color image processing and display; face recognition; and 2D image matching, (3) implementing several such tools in Python, and (4) a first taste of vision and graphics research. Understanding how to turn algorithmic descriptions in research papers into working computer vision code—and how to evaluate its performance—will be key skills acquired in the course.

Prerequisite: [CSC263H1](#)/ [CSC265H1](#)/ [ECE345H1](#)/ [ECE358H1](#)/ [MIE335H1](#), [MAT223H1](#)/ [MAT240H1](#)/ [MAT185H1](#)/ [MAT188H1](#), ([MAT136H1](#) with a minimum mark of 77)/ ([MAT137Y1](#) with a minimum mark of 73)/ ([MAT157Y1](#) with a minimum mark of 67)/ [MAT235Y1](#)/ [MAT237Y1](#)/ [MAT257Y1](#)/ [MAT291H1](#)/ [MAT292H1](#)

Exclusion: [CSC320H5](#). NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: [MAT235Y1](#)/ [MAT237Y1](#)/ [MAT257Y1](#)/ ([MAT232H5](#), [MAT236H5](#))/ ([MAT233H5](#), [MAT236H5](#))/ ([MATB41H3](#), [MATB42H3](#))

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC324H1 - Principles of Programming Languages

Hours: 24L/12T

Programming principles common in modern languages; details of commonly used paradigms. The structure and meaning of code. Scope, control flow, datatypes, and parameter passing. Two non-procedural, non-object-oriented programming paradigms: functional programming (illustrated by languages such as Lisp/Scheme, ML or Haskell) and logic programming (typically illustrated in Prolog).

Prerequisite: [CSC263H1](#)/ [CSC265H1](#)

Exclusion: [CSC324H5](#), [CSCC24H3](#). NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC336H1 - Numerical Methods

Hours: 24L/12T

The study of computational methods for solving problems in linear algebra, non-linear equations, and approximation. The aim is to give students a basic understanding of both floating-point arithmetic and the implementation of algorithms used to solve numerical problems, as well as a familiarity with current numerical computing environments.

Prerequisite: [CSC148H1](#)/ [CSC111H1](#); [MAT133Y1](#)(70%)/ ([MAT135H1](#), [MAT136H1](#))/ [MAT135Y1](#)/ [MAT137Y1](#)/ [MAT157Y1](#), [MAT223H1](#)/ [MAT240H1](#)

Exclusion: [CSC338H5](#), [CSCC37H3](#). NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science

Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC343H1 - Introduction to Databases

Hours: 36L

Introduction to database management systems. The relational data model. Relational algebra. Querying and updating databases: the query language SQL. Application programming with SQL. Integrity constraints, normal forms, and database design. Elements of database system technology: query processing, transaction management.

Prerequisite: CSC111H1/ CSC165H1/ CSC240H1/ (MAT135H1, MAT136H1)/ MAT135Y1/ MAT137Y1/ MAT157Y1/ (MAT186H1, MAT187H1)/ (MAT194H1, MAT195H1)/ (ESC194H1, ESC195H1); CSC207H1/ CSC207H5/ CSCB07H3/ ECE345H1/ ESC190H1

Exclusion: CSC343H5, CSCC43H3, MIE253H1. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC367H1 - Parallel Programming

Hours: 24L/12T

Introduction to aspects of parallel programming. Topics include computer instruction execution, instruction-level parallelism, memory system performance, task and data parallelism, parallel models (shared memory, message passing), synchronization, scalability and Amdahl's law, Flynn taxonomy, vector processing and parallel computing architectures.

Prerequisite: CSC258H1/ CSC258H5/ CSCB58H3; CSC209H1/ CSC209H5/ CSCB09H3

Exclusion: CSC367H5. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC368H1 - Computer Architecture

Hours: 24L/12T

An introduction to computer architecture and how to evaluate the performance of workloads running on processor architectures. Topics include statically and dynamically scheduling instructions in a processor pipeline; speculative execution through branch prediction; hardware cache organizations, their policies, and prefetching; multi-core processors, cache coherence, and synchronization primitives. Additional topics may include other relevant architectures, such as GPUs or domain specific accelerators.

Prerequisite: CSC209H1, CSC258H1

Exclusion: ECE552H1. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC369H1 - Operating Systems

Hours: 24L/12T

Principles of operating systems. The operating system as a control program and as a resource allocator. The concept of a process and concurrency problems: synchronization, mutual exclusion, deadlock. Additional topics include memory management, file systems, process scheduling, threads, and protection.

Prerequisite: CSC209H1/ CSC209H5/ CSCB09H3; CSC258H1/ ECE552H1/ CSCB58H3

Exclusion: CSC369H5, CSCC69H3. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

JSC370H1 - Data Science II

Hours: 24L/24P

This course is **restricted to** students in the Data Science Specialist program. Students will learn to identify and answer questions through the application of exploratory data analysis, data visualization, statistical methods or machine learning algorithms to complex data. Software development for data science and reproducible workflows. Communication of statistical information at various technical levels, ethical practice of data analysis and software development, and teamwork skills. Topics will be explored through case studies and collaboration with researchers in other fields.

Prerequisite: [JSC270H1](#), [STA261H1](#), [MAT237Y1](#)/
[MAT257Y1](#), [CSC263H1](#)/[CSC265H1](#)/[CSC263H5](#)/
[CSCB63H3](#), [STA302H1](#), [CSC343H1](#)/[CSC343H5](#)/
[CSCC43H3](#)

Corequisite: [STA303H1](#)/[STA305H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC373H1 - Algorithm Design, Analysis & Complexity

Hours: 36L/12T

Standard algorithm design techniques: divide-and-conquer, greedy strategies, dynamic programming, linear programming, randomization, network flows, approximation algorithms. Brief introduction to NP-completeness: polynomial time reductions, examples of various NP-complete problems, self-reducibility. Additional topics may include approximation and randomized algorithms. Students will be expected to show good design principles and adequate skills at reasoning about the correctness and complexity of algorithms.

Prerequisite: [CSC263H1](#)/[CSC265H1](#)/[CSC263H5](#)/
[CSCB63H3](#)

Exclusion: [CSC375H1](#), [CSC373H5](#), [CSCC73H3](#). NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC384H1 - Introduction to Artificial Intelligence

Hours: 24L/12T

Theories and algorithms that capture (or approximate) some of the core elements of computational intelligence. Topics include: search; logical representations and reasoning, classical automated planning, representing and reasoning with uncertainty, learning, decision making (planning) under uncertainty. Assignments provide practical experience, in both theory and programming, of the core topics.

Prerequisite: ([CSC263H1](#)/[CSC265H1](#)/[CSC263H5](#)/
[CSCB63H3](#)/[ECE345H1](#)/[ECE358H1](#)/[MIE245H1](#)/ ([CSC148H1](#), enrolled in ASMAJ1446A, completed at least 9.0 credits), [STA220H1](#)/[STA237H1](#)/[STA247H1](#)/
[STA255H1](#)/[STA257H1](#)/[STAB57H3](#)/[STAB52H3](#)/
[ECE302H1](#)/[STA286H1](#)/[CHE223H1](#)/[CME263H1](#)/
[MIE231H1](#)/[MIE236H1](#)/[MSE238H1](#)/[ECE286H1](#)/
[PSY201H1](#))

Exclusion: [CSC384H5](#), [CSCD84H3](#), [MIE369H1](#). NOTE:

Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: [CSC324H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC385H1 - Microprocessor Systems

Hours: 24L/24P

An examination of the issues unique to embedded computing and the Internet of Things (IoT). Software techniques for programming with sensors on lightweight, low-power processors. Topics include embedded processor architectures, interrupts, scheduling for real-time systems, power consumption, and connected device characteristics. Laboratory experiments provide hands-on experience with embedded systems. A refundable deposit of \$90 will be charged for the use of discovery board in lab activities.

Prerequisite: [CSC258H1](#), [CSC209H1](#)

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC396Y0 - Designing Systems for Real World Problems

This Summer Abroad special offering provides students with an opportunity to explore new environments, which improves their ability to see their own world with increased sensitivity and germinates new design ideas. In this course, students will identify a real problem in the world and work in groups on projects addressing this problem. Students will explore their problem space and the people within that space, identify needs, constraints, and requirements, and ultimately design solutions. Their designs will be iterated by gathering feedback and conducting usability testing on the early prototypes. The course projects will culminate with development of a technological solution that addresses the identified problem. Final project presentations will take place at the end of the course. This course can be counted as 0.5 credit at the 300-level for Computer Science program completion.

Prerequisite: Any CSC 0.5 credit, and balloting

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE

courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

CSC398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

CSC399H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

CSC399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

CSC401H1 - Natural Language Computing

Hours: 24L/12T

Introduction to techniques involving natural language processing and speech in applications such as information retrieval, speech recognition and synthesis, machine translation, summarization, and dialogue. N-grams, corpus analysis, neural methods, and information theory. Python and other software.

Prerequisite: [CSC207H1](#)/ [CSC209H1](#)/ [CSC207H5](#)/ [CSCB07H3](#)/ [CSC209H5](#)/ [CSCB09H3](#)/ [APS105H1](#)/ [APS106H1](#)/ [ESC180H1](#)/ [CSC180H1](#); [STA237H1](#)/ [STA247H1](#)/ [STA255H1](#)/ [STA257H1](#)/ [STAB57H3](#)/ [STAB52H3](#)/ [ECE302H1](#)/ [STA286H1](#)/ [CHE223H1](#)/ [CME263H1](#)/ [MIE231H1](#)/ [MIE236H1](#)/ [MSE238H1](#)/ [ECE286H1](#)

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: [CSC311H1](#), [MAT221H1](#)/ [MAT223H1](#)/ [MAT240H1](#) is strongly recommended

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC404H1 - Introduction to Video Game Design

Hours: 36L

Concepts and techniques for the design and development of electronic games. History, social issues, and story elements. The business of game development and game promotion. Software engineering, artificial intelligence, and graphics elements. Level and model design. Audio elements. Practical assignments leading to team implementation of a complete game.

Students must submit an application to the course describing relevant interests, experience, and skills and general academic history. Application questions are set and assessed by the instructor. Applications from St. George students enrolled in a Computer Science program or the Data Science Specialist program will be considered first. Applications by students from other programs with appropriate prerequisites will be considered as space permits.

Please visit <https://q.utoronto.ca/courses/221753/pages/400-level-course-balloting-and-applications> for application deadlines and details. A decision on your application will be confirmed approximately 2-3 weeks after the application deadline, so students should enrol in an alternate course until the results of their application are confirmed.

Prerequisite: [CSC301H1](#)/ [CSC317H1](#)/ [CSC318H1](#)/ [CSC384H1](#)/ [CSC417H1](#)/ [CSC418H1](#)/ [CSC419H1](#)

Exclusion: [CSC404H5](#). NOTE: Students not enrolled in the Computer Science Major or Specialist program at

A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: Creative and Cultural Representations (1)

CSC410H1 - Software Testing and Verification

Hours: 24L/24T

Concepts and state-of-the-art techniques in quality assessment for software engineering; quality attributes; formal specifications and their analysis; testing, verification, and validation.

Prerequisite: CSC207H1, CSC236H1/ CSC240H1

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: CSC330H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC412H1 - Probabilistic Learning and Reasoning

Hours: 24L/12T

An introduction to probability as a means of representing and reasoning with uncertain knowledge. Qualitative and quantitative specification of probability distributions using probabilistic graphical models. Algorithms for inference and probabilistic reasoning with graphical models. Statistical approaches and algorithms for learning probability models from empirical data. Applications of these models in artificial intelligence and machine learning.

Prerequisite: CSC311H1/ CSC411H1/ STA314H1/ ECE421H1/ ROB313H1/ CSCC11H3/ CSC311H5

Exclusion: STA414H1, STAD68H3. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC413H1 - Neural Networks and Deep Learning

Previous Course Number: CSC321H1/CSC421H1

Hours: 24L/12T

An introduction to neural networks and deep learning. Backpropagation and automatic differentiation. Architectures: convolutional networks and recurrent neural networks. Methods for improving optimization and generalization. Neural networks for unsupervised and reinforcement learning.

Prerequisite: CSC311H1/ CSC311H5/ CSCC11H3/ CSC411H1/ STA314H1/ ECE421H1/ ROB313H1/ MAT235Y1/ MAT237Y1/ MAT257Y1/ MAT257Y5/ MAT291H1/ MAT294H1/ AER210H1/ (MAT232H5, MAT236H5) / (MAT233H5, MAT236H5) / (MATB41H3, MATB42H3); MAT223H1/ MAT240H1/ MAT185H1/ MAT188H1/ MAT223H5/ MATA23H3

Exclusion: CSC321H1/ CSC421H1, CSC321H5, CSC413H5. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC417H1 - Physics-Based Animation

Hours: 24L/12T

This course is designed to introduce students to the field of physics-based animation by exposing them to the underlying mathematical and algorithmic techniques required to understand and develop efficient numerical simulations of physical phenomena such as rigid bodies, deformable bodies and fluids. Topics covered include rigid body simulation, elasticity simulation, cloth simulation, collision detection and resolution and fluid simulation. Along the way, we will explore the underlying mathematics of ordinary differential equations, discrete time integration, finite element methods and more.

Students should have a strong background in Linear Algebra and Multivariate Calculus.

Prerequisite: MAT235Y1/ MAT237Y1/ MAT257Y1/ MAT291H1/ MAT294H1; MAT223H1/ MAT240H1/ MAT185H1/ MAT188H1; CSC209H1/ proficiency in C or C++/ APS105H1/ ESC180H1/ CSC180H1

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC419H1 - Geometry Processing

Hours: 24L/12T

Extending traditional signal processing, geometry processing interprets three-dimensional curves and surfaces as signals. Just as audio and image signal data can be filtered, denoised and decomposed spectrally, so can the geometry of a three-dimensional curve or surface. The course covers algorithms and mathematics behind fundamental operations for interpreting and manipulating geometric data. These essential tools enable: geometric modeling for computer aided design, life-like animations for computer graphics, reliable physical simulations, and robust scene representations for computer vision. Topics include: discrete curves and surfaces, curvature computation, surface reconstruction from point clouds, surface smoothing and denoising, parameterization, symmetry detection, and animation.

Prerequisite: MAT235Y1/ MAT237Y1/ MAT257Y1/ MAT291H1/ MAT294H1; MAT223H1/ MAT240H1/ MAT185H1/ MAT188H1; CSC209H1/ proficiency in C or C++/ APS105H1/ ESC180H1/ CSC180H1

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: CSC317H1/ CSC418H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC420H1 - Introduction to Image Understanding

Hours: 24L/12P

Introduction to basic concepts in computer vision. Extraction of image features at multiple scales. Robust estimation of model parameters. Multiview geometry and reconstruction. Image motion estimation and tracking. Object recognition. Topics in scene understanding as time permits.

Prerequisite: For 2024-25: CSC263H1/ CSC265H1/ ECE345H1/ ECE358H1/ MIE335H1; (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1/ (MAT186H1, MAT187H1)/ (MAT194H1, MAT195H1)/ (ESC194H1, ESC195H1); MAT223H1/ MAT240H1/ MAT185H1/ MAT188H1

Beginning Fall 2025: CSC263H1/ CSC265H1/ ECE345H1/ ECE358H1/ MIE335H1; CSC311H1; CSC320H1. We encourage students interested in taking CSC420H1 in 2025-26 or beyond to include CSC263H1, CSC311H1 and CSC320H1 in their enrolment plans for

2024-25.

Exclusion: CSC420H5. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: CSC320H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC428H1 - Human-Computer Interaction

Hours: 24L/12T

Understanding human behaviour as it applies to user interfaces: work activity analysis, observational techniques, questionnaire administration, and unobtrusive measures. Operating parameters of the human cognitive system, task analysis and cognitive modelling techniques and their application to designing interfaces. Interface representations and prototyping tools. Cognitive walkthroughs, usability studies and verbal protocol analysis. Case studies of specific user interfaces.

Prerequisite: CSC318H1; STA237H1/ STA247H1/ STA255H1/ STA257H1/ ECE302H1/ STA286H1/ CHE223H1/ CME263H1/ MIE231H1/ MIE236H1/ MSE238H1/ ECE286H1; CSC207H1/ APS105H1/ ESC180H1/ CSC180H1

Exclusion: CSC428H5. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: A course in PSY; (STA248H1/ STA250H1/ STA261H1)/ (PSY201H1, PSY202H1)/ (SOC202H1, SOC300H1)

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC436H1 - Numerical Algorithms

Hours: 24L/12T

Numerical algorithms for the algebraic eigenvalue problem, approximation, integration, and the solution of ordinary differential equations. Emphasis is on the convergence, stability, and efficiency properties of the algorithms.

Prerequisite: CSC336H1/ CSC350H1

Exclusion: CSC351H1, CSCD37H3. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: MAT235Y1/ MAT237Y1/ MAT257Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC438H1 - Computability and Logic

Hours: 24L/12T

Computable functions, Church's thesis, unsolvable problems, recursively enumerable sets. Predicate calculus, including the completeness, compactness, and Lowenheim-Skolem theorems. Formal theories and the Gödel Incompleteness Theorem. Ordinarily offered in years alternating with CSC448H1.

Prerequisite: (CSC363H1/ CSC463H1) / CSC365H1/ CSC373H1/ CSC375H1/ MAT247H1

Exclusion: MAT309H1; PHL348H1. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC443H1 - Database System Technology

Hours: 24L/12T

Implementation of database management systems. Storage management, indexing, query processing, concurrency control, transaction management. Database systems on parallel and distributed architectures. Modern database applications: data mining, data warehousing, OLAP, data on the web. Object-oriented and object-relational databases.

Prerequisite: CSC343H1, CSC369H1, CSC373H1/ CSC375H1

Exclusion: CSCD43H3. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC446H1 - Computational Methods for Partial Differential Equations

Hours: 24L/12T

Finite Difference and Finite Element methods for boundary value problems including 2-point boundary value problems and 2-dimensional problems. Convergence of methods. Efficiency of the solution of linear systems. Finite difference methods for initial value problems. Consistency, stability and convergence. Method of lines. Special topics of interest among domain decomposition, multigrid, FFT solvers. Ordinarily offered in years alternating with CSC466H1.

Prerequisite: CSC351H1/ (CSC336H1 (75%)) / equivalent mathematical background; MAT237Y1/ MAT257Y1; APM346H1/ MAT351Y1/ (MAT244H1/ MAT267H1 and exposure to PDEs)

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC448H1 - Formal Languages and Automata

Hours: 24L/12T

Regular, deterministic, context free, context sensitive, and recursively enumerable languages via generative grammars and corresponding automata (finite state machines, push down machines, and Turing machines). Topics include complexity bounds for recognition, language decision problems and operations on languages. Ordinarily offered in years alternating with CSC438H1.

Prerequisite: CSC236H1/ CSC240H1, CSC263H1/ CSC265H1

Exclusion: CSC448H5. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: CSC373H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC454H1 - The Business of Software

Hours: 24L/12T

Designed and delivered by industry experts in successful commercialization of tech startups, this course focuses on the development of a viable business and startup in partnership and mentorship from industry businesses and entrepreneurs.

The course is designed to be taken by students from any faculty or discipline. It focuses on helping them understand and develop business sense, introduce modern customer development, and teach skills in product development, financial management, marketing, and leadership. Alongside the software engineering abilities of CSC491H1 teammates, skills learned in CSC454H1 will aid the development of a viable startup.

For more details visit our website at <https://www.dcsil.ca/student-courses>.

Not eligible for CR/NCR option.

Students must submit an application to the course describing relevant interests, experience, and skills and general academic history. On this application, you will indicate whether you wish to be considered for CSC454H1 only, or CSC454H1 and CSC491H1. Application questions are set and assessed by the instructor. Applications from St. George students enrolled in a Computer Science program or the Data Science Specialist program will be considered first. Applications by students from other programs with appropriate prerequisites will be considered as space permits.

Please visit <https://q.utoronto.ca/courses/221753/pages/400-level-course-balloting-and-applications> for application deadlines and details. A decision on your application will be confirmed approximately 2-3 weeks after the application deadline, so students should enrol in an alternate course until the results of their application are confirmed.

Prerequisite: 2.5 credits at the 300-level or higher
Exclusion: CSCD54H3. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.
Breadth Requirements: The Physical and Mathematical Universes (5)

CSC456H1 - High-Performance Scientific Computing

Hours: 24L/12T

Computationally-intensive applications in science and engineering are implemented on the fastest computers available, today composed of many processors operating in parallel. Parallel computer architectures; implementation of numerical algorithms on parallel architectures; performance evaluation. Topics from: matrix-vector product, solution of linear systems, sparse matrices, iterative methods, domain decomposition, Fourier solvers. For students in computer science, applied mathematics, science, engineering. Ordinarily offered in years alternating with CSC446H1.

Prerequisite: CSC436H1/ (CSC336H1 (75%))/ equivalent mathematical background; CSC209H1/ proficiency in C, C++, or Fortran

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC457H1 - Principles of Computer Networks

Hours: 24L/12T

The course covers fundamental principles of computer networks, as well as currently used network architectures and protocols. Its emphasis is 1) to explain why reliable data transfer, addressing, routing and congestion control are the fundamental concepts, 2) to explore the design principles behind algorithms/protocols for reliable data transfer, addressing, routing and congestion control and 3) to use current protocols such as TCP/IP, ARQ, Ethernet, CSMA/CD, DNS and Internet routing protocols as examples of concrete implementations/designs of these protocols. It will highlight the trade-offs (and approaches to navigate these trade-offs) in the design of computer network protocols.

Prerequisite: CSC373H1/ CSC373H5/ CSCC73H3, STA247H1/ STA255H1/ STA257H1/ STA237H1

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: CSC309H1, CSC369H1
Breadth Requirements: The Physical and Mathematical Universes (5)

CSC458H1 - Computer Networking Systems

Hours: 24L/12T

Computer networks with an emphasis on network systems, network programming, and applications. Networking basics: layering, routing, congestion control, and the global Internet. Network systems design and programming: Internet design, socket programming, and packet switching system fundamentals. Additional topics include network security, multimedia, software-defined networking, peer-to-peer networking, and online social networks.

Prerequisite: [CSC209H1](#), [CSC258H1](#), [CSC263H1](#)/
[CSC265H1](#), [STA247H1](#)/[STA255H1](#)/[STA257H1](#)/
[STA237H1](#)/[ECO227Y1](#)

Exclusion: [CSC458H5](#), [CSCD58H3](#). NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC463H1 - Computational Complexity and Computability

Hours: 24L/12T

Introduction to the theory of computability: Turing machines and other models of computation, Church's thesis, computable and noncomputable functions, recursive and recursively enumerable sets, many-one reductions. Introduction to complexity theory: P, NP, polynomial time reducibility, NP-completeness, self-reducibility, space complexity (L, NL, PSPACE and completeness for those classes), hierarchy theorems, and provably intractable problems.

Prerequisite: [CSC236H1](#)/[CSC240H1](#)/[CSC236H5](#)/
[CSCB36H3](#)

Exclusion: [CSC363H1](#)/[CSC363H5](#)/[CSCC63H3](#)/
[CSC365H1](#). NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC465H1 - Formal Methods in Software Design

Hours: 24L

Using mathematics to write error-free programs. Proving each refinement; identifying errors as they are made. Program development to meet specifications; modifications that preserve correctness. Useful for all programming; essential for programs that lives depend on. Basic logic, formal specifications, refinement. Conditional, sequential, parallel, interaction, probabilistic programming, and functional programming.

Prerequisite: [CSC236H1](#)/[CSC240H1](#)/[MAT309H1](#)/
[CSC236H5](#)/[CSCB36H3](#)

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE

courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC466H1 - Numerical Methods for Optimization Problems

Hours: 36L

Numerical methods for unconstrained optimization problems, in particular line search methods and trust region methods. Topics include steepest descent, Newton's method, quasi-Newton methods, conjugate gradient methods and techniques for large problems. This course will normally be offered every other year.

Prerequisite: [CSC336H1](#), [MAT223H1](#)/[MAT240H1](#),
[MAT235Y1](#)/[MAT237Y1](#)/[MAT257Y1](#)

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC469H1 - Operating Systems Design and Implementation

Hours: 24L/12T

An in-depth exploration of the major components of operating systems with an emphasis on the techniques, algorithms, and structures used to implement these components in modern systems. Project-based study of process management, scheduling, memory management, file systems, and networking is used to build insight into the intricacies of a large concurrent system.

Prerequisite: [CSC369H1](#)

Exclusion: [CSC469H5](#). NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

JSC470H1 - Data Science III

Hours: 24L/24P

This course is **restricted to** students in the Data Science Specialist program. Research topics and applications of data science methods will be explored through case

studies and collaboration with researchers in other fields. Data analysis, visualization, and communication of statistical information at various technical levels, ethical practice of data analysis and software development, and teamwork skills.

Prerequisite: JSC370H1, STA314H1/ CSC411H1/
CSC311H1, STA303H1/ STA305H1

Exclusion: STA490Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC473H1 - Advanced Algorithm Design

Hours: 24L/12T

Advanced algorithm design techniques, with emphasis on the role that geometry, approximation, randomization, and parallelism play in modern algorithms. Examples will be drawn from linear programming and basics of continuous optimization; randomized algorithms for string matching, graph problems, and number theory problems; streaming algorithms and parallel algorithms in the Map-Reduce model.

Prerequisite: CSC373H1, MAT223H1/ MAT240H1

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC485H1 - Computational Linguistics

Hours: 36L

Computational linguistics and the processing of language by computer. Topics include: context-free grammars; chart parsing, statistical parsing; semantics and semantic interpretation; ambiguity resolution techniques; reference resolution. Emphasis on statistical learning methods for lexical, syntactic, and semantic knowledge.

Prerequisite: CSC209H1/ APS105H1/ APS106H1/
ESC180H1/ CSC180H1; STA237H1/ STA247H1/
STA255H1/ STA257H1/ ECE302H1/ STA286H1/
CHE223H1/ CME263H1/ MIE231H1/ MIE236H1/
MSE238H1/ ECE286H1

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: CSC311H1, CSC324H1/

CSC384H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC486H1 - Knowledge Representation and Reasoning

Hours: 24L/12T

Representing knowledge symbolically in a form suitable for automated reasoning, and associated reasoning methods. Topics from: first-order logic, entailment, the resolution method, Horn clauses, procedural representations, production systems, description logics, inheritance networks, defaults and probabilities, tractable reasoning, abductive explanation, the representation of action, planning.

Prerequisite: CSC384H1/ CSC384H5/ ROB311H1

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC488H1 - Compilers and Interpreters

Hours: 24L/12T

The structure of compilers, Programming language processing. Scanning based on regular expressions, Parsing using context free grammars, Semantic analysis (type and usage checking), Compiler dictionaries and tables. Runtime organization and storage allocation, code generation, optimization. Use of modern compiler building tools. Course project involves building a complete compiler.

Prerequisite: CSC258H1/ CSC258H5/ CSCB58H3,
CSC324H1/ CSC324H5/ CSCC24H3, CSC263H1/
CSC265H1/ CSC263H5/ CSCB63H3

Exclusion: CSC488H5, CSCD70H3. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC490H1 - Capstone Design Project

Hours: 36L

This half-course gives students experience solving a substantial problem that may span several areas of Computer Science. Students will define the scope of the problem, develop a solution plan, produce a working implementation, and present their work using written, oral, and (if suitable) video reports. Class time will focus on the project, but may include some lectures. The class will be small and highly interactive. Project themes change each year. Contact the Computer Science Undergraduate Office for information about this year's topic themes, required preparation, and course enrolment procedures. Not eligible for CR/NCR option. A refundable deposit of \$90 will be charged for the use of Arduino kit in lab activities.

Students must submit an application to the course describing relevant interests, experience, and skills and general academic history. Application questions are set and assessed by the instructor. Applications from St. George students enrolled in a Computer Science program or the Data Science Specialist program will be considered first. Applications by students from other programs with appropriate prerequisites will be considered as space permits.

Please visit <https://q.utoronto.ca/courses/221753/pages/400-level-course-balloting-and-applications> for application deadlines and details. A decision on your application will be confirmed approximately 2-3 weeks after the application deadline, so students should enrol in an alternate course until the results of their application are confirmed.

Prerequisite: 1.5 credits of 300+ level CSC courses.
Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.
Breadth Requirements: The Physical and Mathematical Universes (5)

CSC491H1 - Capstone Design Project

Hours: 36L

This course is designed and delivered by industry experts from the Software/Tech fields. Students will work with teammates from [CSC454H1](#) to develop a marketable startup on a selected theme.

The class will be small and highly interactive. You will work to develop working software industry best practices. You are expected to have experience writing software and be able to learn on the go.

For more details, visit our website at <https://www.dcsil.ca/student-courses>. Not eligible for CR/NCR option.

Students submit a single application for [CSC491H1](#) and [CSC454H1](#), describing relevant interests, experience, and skills and general academic history. Application questions are set and assessed by the instructor. Applications from St. George students enrolled in a Computer Science program or the Data Science Specialist program will be considered first. Applications by students from other programs with appropriate prerequisites will be considered as space permits.

Please visit <https://q.utoronto.ca/courses/221753/pages/400-level-course-balloting-and-applications> for application deadlines and details. A decision on your application will be confirmed approximately 2-3 weeks after the application deadline, so students should enrol in an alternate course until the results of their application are confirmed.

Corequisite: CSC454H1/ CSC2527H
Exclusion: CSCD90H3. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.
Recommended Preparation: 2.0 CSC credits at the 300+ level, 0.5 additional credits at the 300+ level
Breadth Requirements: The Physical and Mathematical Universes (5)

CSC494H1 - Computer Science Project

This half-course involves a significant project in any area of Computer Science. The project may be undertaken individually or in small groups. The course is offered by arrangement with a Computer Science faculty member, and is restricted to students in an Arts & Science Computer Science program or Data Science Specialist program. Not eligible for CR/NCR option.

Students must submit an application to the course. Applications request information about students' planned project and project supervisor. Applications for each term are due no later than the end of the first week of classes in that term.

Please visit <https://q.utoronto.ca/courses/221753/pages/400-level-course-balloting-and-applications> for application deadlines and details. A decision on your application will be confirmed approximately 2-3 weeks after the application deadline, so students should enrol in an alternate course until the results of their application are confirmed.

Prerequisite: 1.5 credits of 300+ level CSC courses.
Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC494Y1 - Computer Science Project

This course involves a significant multidisciplinary project in an area of Computer Science completed in partnership with another academic unit. Not eligible for CR/NCR option.

Students must submit an application to the course. Application requirements and timelines are set and assessed by the instructor or partnering program. Please visit <https://q.utoronto.ca/courses/221753/pages/400-level-course-balloting-and-applications> for application deadlines and details.

Prerequisite: 1.5 credits of 300+ level CSC courses.

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Breadth Requirements: The Physical and Mathematical Universes (5)

CSC495H1 - Computer Science Project

This half-course involves a significant project in any area of Computer Science. The project may be undertaken individually or in small groups. The course is offered by arrangement with a Computer Science faculty member, and is restricted to students in an Arts & Science Computer Science program or Data Science Specialist program. Not eligible for CR/NCR option.

Students must submit an application to the course. Applications request information about students' planned project and project supervisor. Applications for each term are due no later than the end of the first week of classes in that term.

Please visit <https://q.utoronto.ca/courses/221753/pages/400-level-course-balloting-and-applications> for application deadlines and details. A decision on your application will be confirmed approximately 2-3 weeks after the application deadline, so students should enrol in an alternate course until the results of their application are confirmed.

Prerequisite: CSC494H1. 1.5 credits of 300+ level CSC courses.

Exclusion: NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Dr. David Chu Program In Contemporary Asian Studies

Faculty List

Professors Emeriti

Victor Falkenheim (East Asian Studies/Political Science)
Hy Van Luong (Anthropology)

University Professor

Tania Li (Anthropology)

Professors

Zaheer Baber (Sociology, University of Toronto Scarborough)
Jacques Bertrand (Political Science)
Loren Brandt (Economics)
Eric Cazdyn (East Asian Studies)
Amrita Daniere (Geography/Planning)
Takashi Fujitani (History)
Ping-Chun Hsiung (Social Sciences, University of Toronto Scarborough)
Yoonjung Kang (French and Linguistics)
Bonnie McElhinny (Anthropology)
Ito Peng (Sociology)
Katharine Rankin (Geography)
Atsuko Sakaki (East Asian Studies)
Rachel Silvey (Geography)
Jesook Song (Anthropology)
Andre Sorensen (Social Sciences, University of Toronto Scarborough)
Ka Tat Tsang (Social Work)
Joseph Wong (Political Science)
Jia-Lin Xie (Rotman School of Management)
Lisa Yoneyama (East Asian Studies)
Xiaodong Zhu (Economics)

Associate Professors

Aisha Ahmad (Political Science)
Ruoyun Bai (Global Asia Studies, University of Toronto Scarborough)
Joshua Barker (Anthropology)
Ritu Birla (History)
Alana Boland (Geography)
Li Chen (Global Asia Studies, University of Toronto Mississauga)
Carol Chin (History)
Hae Yeon Choo (Sociology)
Francis Cody (Anthropology/Asian Institute)

Naisargi Dave (Anthropology)
Arti Dhand (Religion)
Christoph Emmrich (Religion)
Xing Fan (Centre for Drama, Theatre and Performance Studies)
Diana Fu (Political Science, University of Toronto Scarborough)
Frances Garrett (Religion)
Kanishka Goonewardena (Geography)
Yi Gu (Art History, University of Toronto Scarborough)
Kajri Jain (Visual Studies, University of Toronto Mississauga)
Beatrice Jauregui (Criminology and Sociolegal Studies)
Raji Jayaraman (Economics and Munk School of Global Affairs & Public Policy)
Malavika Kasturi (Historical Studies, University of Toronto Mississauga)
Ken Kawashima (East Asian Studies)
Tong Lam (Historical Studies, University of Toronto Mississauga)
Yoonkyung Lee (Sociology)
Phillip Lipsky (Political Science, Munk School of Global Affairs & Public Policy)
Sida Liu (Sociology)
Ken MacDonald (Social Sciences, University of Toronto Scarborough)
Mark Manger (Munk School of Global Affairs & Public Policy)
Lisa Mar (History, University College)
Heather Miller (Anthropology)
Kanta Murali (Political Science)
Rajashree Narayanareddy (Geography)
Lynette Ong (Political Science/Asian Institute)
Joshua Pilzer (Music)
Janet Poole (East Asian Studies)
Jennifer Purtle (Art History)
Bhavani Raman (Historical and Cultural Studies, University of Toronto Scarborough)
Srilita Raman (Religion)
Ajay Rao (Religion)
Karen Ruffle (Religion)
Izumi Sakamoto (Social Work)
Shiho Satsuka (Anthropology)
Andre Schmid (East Asian Studies)
J. Barton Scott (Religion)
Jayeeta Sharma (History, University of Toronto Scarborough)
Neera Singh (Geography)
Shafique Virani (Historical Studies, University of Toronto Mississauga)
Yvon Wang (History)
Yiching Wu (East Asian Studies/Asian Institute)
Sherry Yu (Arts, Culture and Media, University of Toronto Scarborough)
Meng Yue (East Asian Studies)
Jun Zhang (Geography)
Weiguo Zhang (Sociology, University of Toronto Mississauga)
Yurou Zhong (East Asian Studies)

Assistant Professors

Michelle Cho (East Asian Studies)
 Yujeong Choi (East Asian Studies)
 Cindy Ewing (History)
 Elisa Freschi (Philosophy)
 Alessandro Graheli (Historical Studies, University of Toronto Mississauga)
 Anup Grewal (Cultural and Historical Studies, University of Toronto Scarborough)
 Rijuta Mehta (English)
 Libby Mills (Religion)
 Shivaji Mukherjee (Political Science, University of Toronto Mississauga)
 Tahseen Shams (Sociology)
 Nidhi Subramanyam (Geography)
 Wen-Ching Sung (Anthropology)
 Julie Vig (Religion)
 Matthew Walton (Political Science)
 Elizabeth Wijaya (Visual Studies and Cinema Studies)
 Shana Ye (Women and Gender Studies, University of Toronto Scarborough)

Adjunct Professors

Deepali Dewan (Royal Ontario Museum)
 Wendy Dobson (Rotman School of Management)

Introduction

Asia is home to more than half the world's population. Its cultural and historical complexity is endless, its economic growth unprecedented, and its global influence unmatched.

The Contemporary Asian Studies program (CAS) offers a thematically driven approach to understanding the complexity of issues facing today's Asia. It examines the linkages between Asia's history and culture, its emergence on the global stage, and its future in the global arena. CAS courses are distinctly pan-Asian in geographic scope, providing empirical and critical coverage of South, Southeast, and East Asia through multiple disciplinary approaches, including anthropology, economics, geography, history, political science, religion, and sociology.

By exposing students to current issues and debates in Asia, the CAS program is designed to prepare students for careers in or about Asia. In addition, the Asian Institute is committed to facilitating overseas experiential learning opportunities, including field schools, international course modules, professional internships, and study abroad opportunities. Upper-level CAS courses are designed to be research-intensive. There is no language requirement for the CAS major or minor. However, students are strongly encouraged to study an Asian language. 1.0 credit in an approved Asian language can be credited towards the major or minor degree.

Students may also be interested in the [South Asian Studies](#) minor, which is closely connected with the Contemporary Asian Studies program.

NOTE: Students who wish to count courses towards the CAS major or minor that are not listed as CAS courses or in Group A, B, or C of the program completion requirements (including U of T courses and transfer credits) must seek pre-approval from the program advisor prior to taking the course. Asian content does not guarantee that the course will be approved for CAS program credit.

Contact Information

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<https://munkschool.utoronto.ca/ai/cas>
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 416-946-8832

Contemporary Asian Studies Programs

Contemporary Asian Studies Major (Arts Program) - ASMAJ0235

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits. Please note: each course can only be counted towards one of the requirements below)

1. [CAS100H1](#) and a 0.5 credit from [CAS200H1](#)/[CAS201H1](#)/[CAS202H1](#)
2. 1.0 credit in 300-level CAS courses (including JHA, JPA, and SAS)
3. [CAS400H1](#)
4. 1.5 credits from Group A
5. 1.5 credits from Group B
6. 1.0 additional credit from Group A or B, **OR** 1.0 credit at any level of an Asian language (see *Accepted Language Courses* below)

7. CAS450H1 OR 0.5 credit in a quantitative or qualitative methods course from Group C to fulfill the Research Competency required in the program.

Group A: Social, Political and Economic Topics (Social Science)

AFR389H1, CAS200H1, CAS201H1, CAS202H1, CAS310H1, CAS320H1, CAS370H1, CAS390H1, CAS420H1, CAS430H1, CAS490H1, ANT341H1, ANT472H1, ANT477H1, CDN230H1, CDN390H1, EAS105H1, EAS246H1, EAS247H1, EAS270H1, EAS271H1, EAS272H1, EAS273H1, EAS285H1, EAS289Y1, EAS315H1, EAS328H1, EAS333H1, EAS345Y1, EAS347H1, EAS357H1, EAS364H1, EAS372H1, EAS373H1, EAS374H1, EAS375H1, EAS378H1, EAS457H1, EAS459Y1, EAS466H1, EAS468H1, EAS473H1, EAS474H1, EAS476H1, ECO435H1, GGR342H1, GGR343H1, HIS280Y1, HIS282Y1, HIS283Y1, HIS326H1, HIS328H1, HIS333H1, HIS346H1, HIS379H1, HIS385H1, HIS385Y0, HIS470H1, HIS480H1, HIS494H1, JHA384H1, JHA394H1, JPA331H1, JPA376Y0, JPA453H1, MUN200H1, POL302Y1, POL307H1, POL328Y1, POL328H1, POL388H1, POL357Y1, POL431Y1, POL441H1, SAS114H1, SAS318H1, SOC218H1, SOC372H1, WGS420H1

Group B: Cultural Topics (Humanities)

BPM214H1, CAS310H1, CAS320H1, CAS350H1, CAS360H1, CAS414H1, CDN225H1, CDN307H1, CDN325H1, CHC456H1, CIN376Y1, EAS231H1, EAS251H1, EAS278H1, EAS279H1, EAS307H1, EAS314H1, EAS333H1, EAS355H1, EAS387H1, EAS391H1, EAS392H1, EAS394H1, EAS419H1, EAS421H1, EAS431H1, EAS489H1, ENG368H1, ENG369H1, FAH260H1, FAH262H1, FAH363H1, FAH364H1, FAH462H1, FAH463H1, FAH464H1, FAH465H1, FAH487H1, FAH490H1, HIS266H1, HIS467H1, MUS209H1, MUS215H1, PHL237H1, PHL239H1, PHL339H1, RLG205H1, RLG206H1, RLG208H1, RLG311H1, RLG312H1, RLG352H1, RLG355H1, RLG356H1, RLG358H1, RLG361H1, RLG365H1, RLG366H1, RLG372H1, RLG373H1, RLG478H1, SAS490H1

Group C: Methodology

CAS450H1, DTS300H1, ECO220Y1, ECO227Y1, GGR225H1, GGR270H1, GGR271H1, MUN105Y1, POL222H1, POL419H1, PSY201H1, STA201H1, STA220H1, SOC202H1, SOC204H1

Accepted Language Courses

EAS100Y1, EAS101Y1, EAS200Y1, EAS201H1, EAS300Y1, EAS401H1, EAS402H1, EAS404H1, EAS120Y1, EAS121H1, EAS122Y0, EAS220Y1, EAS221H1, EAS222Y0, EAS223Y0, EAS301H1, EAS320Y1, EAS321Y0, EAS322Y0, EAS460H1, EAS461H1, EAS462Y0, EAS463Y0, EAS464Y0, EAS110Y1, EAS210Y1, EAS211Y1, EAS212H1, EAS310Y1, EAS410Y1, EAS416Y1

Contemporary Asian Studies Minor (Arts Program) - ASMIN0235

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits. Please note: each course can only be counted toward one of the requirements below)

1. CAS100H1 and a 0.5 credit from CAS200H1/CAS201H1/CAS202H1
2. 1.0 credit from 300-level CAS courses (including JHA, JPA, and SAS)
3. 0.5 credit from Group A and 0.5 credit from Group B (excluding 100-level courses)
4. 1.0 credit from Group A or B (excluding 100-level courses), or at any level in an Asian language (see *Accepted Language Courses* below)

Group A: Social, Political and Economic Topics (Social Science)

AFR389H1, CAS200H1, CAS201H1, CAS202H1, CAS310H1, CAS320H1, CAS370H1, CAS390H1, CAS420H1, CAS430H1, CAS490H1, ANT341H1, ANT472H1, ANT477H1, CDN230H1, CDN390H1, EAS105H1, EAS246H1, EAS247H1, EAS270H1, EAS271H1, EAS272H1, EAS273H1, EAS285H1, EAS289Y1, EAS315H1, EAS328H1, EAS333H1, EAS345Y1, EAS347H1, EAS357H1, EAS364H1, EAS372H1, EAS373H1, EAS374H1, EAS375H1, EAS378H1, EAS457H1, EAS459Y1, EAS466H1, EAS468H1, EAS473H1, EAS474H1, EAS476H1, ECO435H1, GGR342H1, GGR343H1, HIS280Y1, HIS282Y1, HIS283Y1, HIS326H1, HIS328H1, HIS333H1, HIS346H1, HIS379H1, HIS385H1, HIS385Y0, HIS470H1, HIS480H1, HIS494H1, JHA384H1, JHA394H1, JPA331H1, JPA376Y0, JPA453H1, MUN200H1, POL302Y1, POL307H1, POL328Y1, POL328H1, POL388H1, POL357Y1, POL431Y1, POL441H1, SAS114H1, SAS318H1, SOC218H1, SOC372H1, WGS420H1

Group B: Cultural Topics (Humanities)

BPM214H1, CAS310H1, CAS320H1, CAS350H1, CAS360H1, CAS414H1, CDN225H1, CDN305H1, CDN307H1, CDN325H1, CHC456H1, CIN376Y1, EAS231H1, EAS251H1, EAS278H1, EAS279H1, EAS307H1, EAS314H1, EAS333H1, EAS355H1, EAS387H1, EAS391H1, EAS392H1, EAS394H1, EAS419H1, EAS421H1, EAS431H1, EAS489H1, ENG368H1, ENG369H1, FAH260H1, FAH262H1, FAH363H1, FAH364H1, FAH462H1, FAH463H1, FAH464H1, FAH465H1, FAH487H1, FAH490H1

HIS266H1, HIS467H1, MUS209H1, MUS215H1,
PHL237H1, PHL239H1, PHL339H1, RLG205H1,
RLG206H1, RLG208H1, RLG311H1, RLG312H1,
RLG352H1, RLG355H1, RLG356H1, RLG358H1,
RLG361H1, RLG365H1, RLG366H1, RLG372H1,
RLG373H1, RLG478H1, SAS490H1

Accepted Language Courses

EAS100Y1, EAS101Y1, EAS200Y1, EAS201H1,
EAS300Y1, EAS301H1, EAS401H1, EAS402H1,
EAS404H1, EAS120Y1, EAS121H1, EAS122Y0,
EAS220Y1, EAS221H1, EAS222Y0, EAS223Y0,
EAS320Y1, EAS321Y0, EAS322Y0, EAS460H1,
EAS461H1, EAS462Y0, EAS463Y0, EAS464Y0,
EAS110Y1, EAS210Y1, EAS211Y1, EAS212H1,
EAS310Y1, EAS410Y1, EAS416Y1

Contemporary Asian Studies Courses

CAS100H1 - Introduction to Contemporary Asian Studies

Previous Course Number: CAS202H1
Hours: 24L/6T

This course provides an introduction to Contemporary Asian Studies, focusing on the rapid social, political, economic, and cultural changes taking place in the dynamic regions of East Asia, South Asia, and Southeast Asia.

Exclusion: CAS202H1

Breadth Requirements: Society and its Institutions (3)

MUN120H1 - Revolutions

Hours: 24L/8T

This course transcends time and place to delve into the overarching dynamics of revolution. This exploration of revolutions goes beyond simple chronology to uncover common threads that unite these transformative events. From the spirit that ignited the English Revolution to the fervor of the American Revolution, the course navigates through the social and political forces that reshaped societies. Students will dissect the emergence of radical change, tracing its evolution from the French Revolution to

Elective Courses

Electives offered by other departments which are pre-approved for CAS credit are listed under groups A, B, and C in the major and minor program requirements. Note that not all electives are offered every year. Some may not be offered on a regular basis and/or may only be offered to students enrolled in a program sponsored by the department or unit offering the course. Students are responsible for checking co- and prerequisites for all courses.

Courses with Priority Enrolment

The following courses (non-CAS) offer priority enrolment for CAS students:

POL328H1 - Politics and Government in South Asia

the Revolutions of 1848 and the birth of modern political ideologies. The course then navigates through the 20th century, from the Russian and Chinese Revolutions to the Cuban Revolution and the intricate web of Latin American revolutionary movements. Comparative analysis delves into the universal and unique aspects of these revolutions, offering students an understanding of the power and influence of these transformative moments.

Breadth Requirements: Thought, Belief and Behaviour (2)

CAS200H1 - Introduction to Contemporary Asian Studies

Hours: 24L

This course is an introduction to Contemporary Asian Studies. It covers detailed case study material from South Asia, Southeast Asia, and East Asia. It introduces students to the interdisciplinary study of political, sociocultural and economic interactions among these regions, as well as the transnational forces shaping internal dynamics throughout Asia. In addition, it examines the ways that forces stemming from Asia are affecting global processes, pushing scholarship to engage questions about colonialism, nationalism, "race," religion, markets, urbanization, migration, and mass mediated culture. This course provides preparation for more advanced courses on Asia and globalization and provides an introductory gateway for the Contemporary Asian Studies major and minor. May be taken in the first year of studies.

Breadth Requirements: Society and its Institutions (3)

CAS201H1 - Global Asian Studies: Insights and Concepts

Previous Course Number: CAS200Y1

Hours: 24L

This course addresses Asia empirically in contemporary global formations and as an idea in the global imagination. It introduces students to concepts and theories central to scholarship on Asia and its transnational formations. It provides foundational theoretical and conceptual material to understand global issues as they play out in the politics, economies, cultures and contemporary social worlds of contemporary Asian sites. Interdisciplinary analytical and research concepts are introduced to provide area studies grounding. This course provides preparation to delve into deeper research on Asia connected to broad questions about the natures of democracy, authoritarianism, market formation, social justice, and the media of cultural expression. It informs students aiming to take more advanced courses on Asia and globalization and provides one part of the foundation for the Contemporary Asian Studies major and minor. CAS201H1 introduces the theoretical and conceptual frameworks that are explored through further grounded empirical case studies in upper year CAS courses.

Exclusion: CAS200Y1

Breadth Requirements: Society and its Institutions (3)

CAS202H1 - Global Asian Studies: Sites and Practices

Previous Course Number: CAS200Y1

Hours: 24L

This interdisciplinary course explores a variety of sites and topics in South, Southeast, and East Asia. It explores themes including contemporary and historical articulations of socio-economic development, (post)colonial political formations, urbanization processes, climate change, labour struggles, gender studies, migration, citizenship, and social justice. The course examines the diversity of Asian modernities, cross-regional linkages, and changing approaches to area studies over time. It provides a foundation for the Contemporary Asian Studies major and minor, preparing students for taking more advanced courses on Asia in the global context.

Exclusion: CAS200Y1

Breadth Requirements: Society and its Institutions (3)

CAS310H1 - Comparative Colonialisms in Asia

Hours: 24L

This course analyzes the impact of colonialism in South, East, and Southeast Asia and the various ways in which pre-colonial traditions intersect with and reshape colonial and postcolonial process across the various regions of Asia. The course will examine the conjunctures of economy, politics, religion, education, ethnicity, gender, and caste, as these have played out over time in the making and re-making of Asia as both idea and place. Attention will be paid to postcolonial and indigenous theories, questions of 'the colonial' from the perspective of Asian Studies, and debates about the meaning of postcolonialism for the study of Asia now and in the future.

Prerequisite: 0.5 CAS credit at the 200-level

Breadth Requirements: Society and its Institutions (3)

CAS320H1 - Comparative Modernities in Asia

Hours: 24L

Since at least the late 1700s, the effects of capitalism across the globe have profoundly transformed the landscapes of human livelihood, consumption, production and governance in Asia. While colonial empires have declined, new empires have emerged, and a growing number of countries have witnessed the rise of nationalism and independent states, social, political and technological revolutions, and most recently neoliberal globalization. This course theorizes and explores these dramatic changes in a comparative framework. It is aimed at students wishing to better understand the great transformations of modern Asia in a global context.

Prerequisite: 0.5 CAS credit at the 200-level

Recommended Preparation: CAS202H1

Breadth Requirements: Society and its Institutions (3)

JPA331H1 - Rise of China as a Global Power

Previous Course Number: JPA331Y1

Hours: 24L

This course will take students through important domestic institutions and events in China that shape its current political landscape. Students will be prompted to think about the implications of domestic political factors for China's rise as a global power. The course examines major China's adventurism abroad, such as the Belt-and-Road Initiative, and what increasing footprints of Chinese

state and private firms overseas mean for international politics.

(Given by the Department of Political Science and the Contemporary Asian Studies Program)

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses, or 1.0 CAS credit

Exclusion: JPA331Y1/ POLC16H3

Breadth Requirements: Society and its Institutions (3)

JPA331Y0 - Rise of China as a Global Power

Previous Course Number: JPA331Y1

Hours: 48L

This course will take students through important domestic institutions and events in China that shape its current political landscape. Students will be prompted to think about the implications of domestic political factors for China's rise as a global power. The course examines major China's adventurism abroad, such as the Belt-and-Road Initiative, and what increasing footprints of Chinese state and private firms overseas mean for international politics. *(Offered as part of the Summer Abroad program)*

(Given by the Department of Political Science and the Contemporary Asian Studies Program)

Prerequisite: 2.0 POL credits/1.0 CAS credit

Exclusion: JPA331H1/ JPA331Y1/ POLC16H3

Breadth Requirements: Society and its Institutions (3)

CAS350H1 - Asian Youth Cultures

Hours: 24L

In focusing on youth in Asia, this course brings together two disputed cultural formations of substantial contemporary importance. Both youth and Asia are increasingly invoked on the global stage in support of a wide range of interests. Examining practices of young people and the idea of youth in the context of Asia requires critical attention to the promises and fears that attach to the rise of Asian economies, international demographic transitions, the growth of a global middle-class, increasing consumption disparities, changing immigration patterns, expanding technological skills, global/local environmental concerns, and young people's shifting political priorities and loyalties. The course may feature a significant amount of social theory, with authors such as Michel Foucault, Roland Barthes, Louis Althusser, and Stuart Hall.

Prerequisite: 6.0 credits

Recommended Preparation: 0.5 CAS credit at the 200-

level

Breadth Requirements: Creative and Cultural Representations (1)

CAS360H1 - Asian Genders

Hours: 24L

This course will explore ways that gender is mobilized and produced in parts of Asia. It seeks to understand gender and sexuality in their diversity and in attempts to "fix" or locate it in various bodies and places. Attempts will be made to see how gender is made knowable in terms of sexuality, medicine, nation, class, ethnicity, religion, and other discourses. The course assumes a willingness to read challenging theory – such as the writings of Judith Butler, Michel Foucault, and Eve Sedgwick – and asks that students commit to regular attendance.

Prerequisite: 6.0 credits

Recommended Preparation: 0.5 CAS credit at the 200-level

Breadth Requirements: Society and its Institutions (3)

CAS370H1 - Asian Cities

Hours: 24L

This course offers a multidisciplinary perspective of urban life in Asia. The thematic focus will be on how the urban intersects with modernities and postcolonial formations. Drawing on recent scholarship in the social sciences and the humanities, we will examine the realignment of cultural, political, and economic forces associated with Asia's diverse processes of urbanization.

Prerequisite: 6.0 credits

Recommended Preparation: 0.5 CAS credit at the 200-level

Breadth Requirements: Society and its Institutions (3)

JPA376Y0 - Transforming Global Politics: Comparative and Chinese Perspectives

Hours: 48L

Set against the backdrop of the rise of China, this course examines the dynamics of global change from comparative and Chinese perspectives. Themes include international security, political economy, political development and democracy, global climate change, economic development, poverty and inequality, corruption, technology innovation, among others.

(Given by the Department of Political Science and the Contemporary Asian Studies Program)

Prerequisite: POL208H1/ POL208Y1/ POL209H5/ POLB80H3/ POLB81H3/ POL224H1/ POL224Y1/ CAS200Y1

Breadth Requirements: Society and its Institutions (3)

JHA384H1 - Japan in the World, Mid-16th to Mid-20th century

Hours: 24L

This course examines Japan within the context of world history from the mid-16th to the mid-20th century. Rather than seek comprehensive coverage of Japan's national history along a linear timeline, we will use Japan as a lens through which to consider key moments in the history of the modern world.

Prerequisite: One course from: HIS102Y1, HIS103Y1, HIS107Y1, HIS241H1, HIS242H1, HIS244H1, HIS250H1, HIS250Y1, HIS271Y1, HIS280Y1, HIS281Y1, HIS282Y1, HIS283Y1, HIS291H1, HIS291Y1, HIS292H1, HIS292Y1, HIS297Y1, or 1.0 credit from CAS200H1, CAS201H1, CAS202H1, CAS310H1, CAS320H1.

Breadth Requirements: Society and its Institutions (3)

CAS390H1 - Special Topics

Hours: 24L

Course content varies in accordance with the interest of the instructor. Check <http://munkschool.utoronto.ca/ai/cas> for an updated description.

Prerequisite: 6.0 credits

Recommended Preparation: 0.5 CAS credit at the 200-level

CAS393H1 - Independent Research

Supervised independent research on a topic agreed on by the student and a faculty supervisor before enrolment in the course. Open to advanced CAS major and minor students with a strong background in contemporary Asian studies. A maximum of one year of Independent Research courses is allowed per program. Contact hours with the supervisor may vary, but typically comprise of one hour per week. Not eligible for CR/NCR option. To enrol, please contact ai.asianstudies@utoronto.ca to request an application form, which should be filled out in consultation with the faculty supervisor and include a detailed description of the course topic, reading list, and assignments/marking scheme. Students must submit the

completed form to ai.asianstudies@utoronto.ca at least one week before the start of term.

Prerequisite: 10.0 credits, an application form

CAS393Y1 - Independent Research

Supervised independent research on a topic agreed on by the student and a faculty supervisor before enrolment in the course. Open to advanced students in the CAS major and minor with a strong background in contemporary Asian studies. A maximum of one year of Independent Research courses is allowed per program. Contact hours with the supervisor may vary, but typically comprise of one hour per week. Not eligible for CR/NCR option. To enrol, please contact ai.asianstudies@utoronto.ca to request an application form, which should be filled out in consultation with the faculty supervisor and include a detailed description of the course topic, reading list, and assignments/marking scheme. Students must submit the completed form to ai.asianstudies@utoronto.ca at least one week before the start of term.

Prerequisite: 10.0 credits, an application form

JHA394H1 - The Asia Pacific War

Hours: 24L

This course examines the Second World War in the Asia Pacific region and highlights: (1) how imperialism and colonialism of both the Euro-American and Japanese varieties were central to the War's outbreak, conduct, and "resolution"; (2) various "local" rather than simply national experiences and memories of the War, including those of marginalized groups in Japan and its colonies, "comfort women," victims of war atrocities, Asian North Americans, African Americans, and Pacific Islanders.

Prerequisite: One course from: HIS107Y1, HIS242H1, HIS250H1, HIS251H1, HIS263Y1, HIS271Y1, HIS280Y1, HIS281Y1, HIS282Y1, HIS283Y1, HIS284Y1, HIS292Y1, HIS311Y1, HIS317H1, HIS328H1, HIS338H1, HIS343H1, HIS343Y1, HIS344H1, HIS344Y1, HIS351Y1, HIS361Y1, HIS377H1, HIS385H1, HIS385Y1, or 1.0 credit from CAS200H1, CAS201H1, CAS202H1, CAS310H1, CAS320H1.

Recommended Preparation: One or more courses on Japan, China, Korea, or Southeast Asia in any department.

Breadth Requirements: Society and its Institutions (3)

CAS400H1 - Interdisciplinary Research in Methods in Contemporary Asian Studies

Hours: 24S

This seminar addresses Asian worlds – In Asia, transnationally, and locally – to cultivate new approaches to global processes and problems. The course explores key Asian sites that open new configurations for studying interactions between economic/environmental development, political change, and migration and cultural politics. It provides an advanced and systematic overview of the research methodologies that students have been exposed to throughout the CAS program. These include historical-archival, ethnographic, visual/media, and statistical/quantitative methods that allow us to map Asian political, economic, and cultural formations, and through them, global challenges. The seminar builds interdisciplinary conversations attentive to both critical problematizing and problem-solving, to qualitative and applied projects. It is the required capstone to the Contemporary Asian Studies major.

Prerequisite: 1.0 200-level CAS credit and 1.0 300-level CAS credit

Exclusion: CAS400Y1

Breadth Requirements: Society and its Institutions (3)

CAS413H1 - Asia and Canada

Hours: 24S

This course is an interactive, participatory seminar. It will provide an opportunity to complement theoretical understanding about Asia acquired in other courses through hands-on research and experiential learning. The course will enable students to link studying Asia and Canada to career trajectories in the field of development and research.

Prerequisite: 14.0 credits

Exclusion: NEW413H1, SAS413H1

Breadth Requirements: Society and its Institutions (3)

CAS414H1 - The Public Event in Asia

Hours: 24S

This upper-level seminar will introduce students to the interdisciplinary study of popular culture in Asia through a focus on public events. Readings about all kinds of performances, including ritual, popular protest, festivals, sports, cinema, television, digital media events, and the performing arts will help students learn methodological tools to interpret the politics and meanings of public

culture as it articulates with class, ethnicity, religious community, gender and caste. The course will furthermore familiarize students with a range of theoretical lenses for conceptualizing the different meanings of the “event” and the “public” from a perspective grounded in the histories of South Asia, Southeast Asia, East Asia, and their diasporas.

Prerequisite: At least 14.0 credits

Exclusion: NEW414H1, SAS414H1

Recommended Preparation: 1.0 credit in 200 level CAS courses; 1.0 credit in 300 level CAS courses

Breadth Requirements: Creative and Cultural Representations (1)

CAS420H1 - Asia and the New Global Economy

Previous Course Number: JPA420H1

Hours: 24S

This course explores the rise of Asia and its integration into the new global economy (labour, capitalism, knowledge economy, economic nationalism, inequality, gender, the meaning of capitalism, democracy, among others), exposing students to diverse disciplinary perspectives. Geographical coverage is pan-Asian, including East, Southeast and South Asia.

Prerequisite: 14.0 credits

Exclusion: JPA420H1

Recommended Preparation: 1.0 200-level CAS credit and 1.0 300-level CAS credit

Breadth Requirements: Society and its Institutions (3)

CAS430H1 - Nationalism and Revolution in Asia

Hours: 24L

This course explores the far-reaching social, political, and cultural transformations in modern East, Southeast, and South Asia, focusing on the twentieth-century revolutionary histories and struggles to establish modern nation-states. The course adopts a topical approach within a chronological and comparative framework to highlight major historical movements and theoretical issues significant to the Asian experience.

Prerequisite: 14.0 credits

Exclusion: ASI430H1

Recommended Preparation: 1.0 200-level CAS credit and 1.0 300-level CAS credit

Breadth Requirements: Society and its Institutions (3)

CAS450H1 - Asian Pathways Research Practice

Hours: 24S

This seminar builds on the systematic overview of research methodologies of the Contemporary Asian Studies major and its capstone course, CAS400H1. CAS450H1 provides students with the opportunity to research questions of contemporary relevance stemming from Asia and its transnational networks and communities. Addressing a range of methodologies, including historical-archival, ethnographic, visual/media, and statistical/quantitative, the course emphasizes research experience outside the classroom, in Asia as well as locally with communities in Toronto. Students will develop their own research contributions while working collaboratively.

Prerequisite: 14.0 credits, including 1.0 200-level CAS credit and 1.0 300-level CAS credit

Exclusion: CAS400Y1

Breadth Requirements: Society and its Institutions (3)

JPA453H1 - Authoritarianism in Comparative Perspective

Previous Course Number: POL453H1

Hours: 24S

This course examines the politics of authoritarianism in theory and practice. It covers major theories in authoritarian politics, ranging from selectorate theory, authoritarian institutions, impact of institutions on political outcome, ways of measuring authoritarian state power, democracy and development, to social movement and state repression in authoritarian regime, and political transitions. On empirical application, we will draw on cases from around the world, with some emphasis on Asian authoritarian states.

(Given by the Department of Political Science and the Contemporary Asian Studies Program)

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA/ CAS courses

Exclusion: POL453H1

Breadth Requirements: Society and its Institutions (3)

CAS490H1 - Special Topics in Contemporary Asian Studies

Hours: 24S

Course content varies in accordance with the interest of the instructor. Check <http://munkschool.utoronto.ca/ai/cas> for an updated description.

Prerequisite: 14.0 credits, including 1.0 200-level CAS credit and 1.0 300-level CAS credit

SAS490H1 - Special Topics in South Asian Studies

Hours: 24S

Course content varies in accordance with the interest of the instructor. Please check the Arts & Science timetable for an updated title and description.

Prerequisite: 14.0 credits including at least 1.0 credit from SAS or CAS courses. Students who do not meet these prerequisites are encouraged to contact the Department.

Breadth Requirements: Society and its Institutions (3)

CAS498H1 - Independent Research

Supervised independent research on a topic agreed on by the student and a faculty supervisor before enrolment in the course. Open to advanced CAS major and minor students with a strong background in contemporary Asian studies. A maximum of one year of Independent Research courses is allowed per program. Contact hours with the supervisor may vary, but typically comprise of one hour per week. Not eligible for CR/NCR option. To enrol, please contact ai.asianstudies@utoronto.ca to request an application form, which should be filled out in consultation with the faculty supervisor and include a detailed description of the course topic, reading list, and assignments/marking scheme. Students must submit the completed form to ai.asianstudies@utoronto.ca at least one week before the start of term.

Prerequisite: 14.0 credits, including CAS200Y1/(CAS201H1 and CAS202H1), CAS310H1

Recommended Preparation: CAS320H1

CAS498Y1 - Independent Research

Supervised independent research on a topic agreed on by the student and a faculty supervisor before enrolment in the course. Open to advanced CAS major and minor students with a strong background in contemporary Asian studies. A maximum of one year of Independent Research courses is allowed per program. Contact hours with the supervisor may vary, but typically comprise of one hour per week. Not eligible for CR/NCR option. To enrol, please contact ai.asianstudies@utoronto.ca to request an application form, which should be filled out in consultation

with the faculty supervisor and include a detailed description of the course topic, reading list, and assignments/marking scheme. Students must submit the completed form to ai.asianstudies@utoronto.ca at least one week before the start of term.

Prerequisite: 14.0 credits, including 1.0 200-level CAS credit and 1.0 300-level CAS credit

Centre for Criminology and Sociolegal Studies

Faculty List (Undergraduate only)

Professors Emeriti

A.N. Doob, AB, PhD, FRSC
R. Gartner, BA, MS, PhD
† P.H. Solomon, MA, PhD
M. Valverde, BA, MA, PhD, FRSC

Professor and Director

K. Clarke, M.A., M.Phil., M.S.L, PhD

Professors

K. Hannah-Moffat, BA, MA, PhD
S. Wortley, MA, PhD

Associate Professors

C. Evans, BA, MA, PhD
B. Jauregui, BA, MA, PhD
M. Light, AB, MA, JD, PhD

Assistant Professors

A. Laniyonu, BA, MA, PhD

Assistant Professor, Teaching Stream

K. Taylor, BES, LLB, DJur

† Cross-appointed

Introduction

The Centre for Criminology and Sociolegal Studies (CrimSL) is a research and teaching unit at the University of Toronto. Founded in 1963 by Prof. John Edwards, CrimSL faculty and students study crime, justice, and governance through law from a variety of disciplinary perspectives and theoretical approaches. With backgrounds in sociology, anthropology, history, law, psychology, philosophy and political science, the faculty are actively engaged in Canadian and international criminological and sociolegal research. The CrimSL library (the Criminology Information Service) houses the leading Canadian research collection of criminological material, consisting of more than 25,000 books, journals, government reports, statistical sources and other documents.

The Criminology and Sociolegal Studies program incorporates theory, research methods, and knowledge

from a wide range of disciplines. The program provides students with a sound foundation for the understanding of crime and the administration of justice in Canada and abroad, and, more generally, the processes of social order and disorder. The curriculum also responds to the Truth and Reconciliation Commission's calls to action by offering courses in Indigenous peoples and criminal justice and Indigenous law, as well as incorporating attention to Indigeneity in other courses. Most students combine their studies in Criminology and Sociolegal Studies with programs in Political Science, Psychology or Sociology.

People with backgrounds in Criminology and Sociolegal Studies are found working in Correctional Services, Law Enforcement, Courts, Government departments, NGOs and other settings. Some careers in Criminology and Sociolegal Studies require additional education and experience beyond the undergraduate level. Please visit our website for other program resources and course forms.

Undergraduate Program Office | Criminology and Sociolegal Studies (416-946-3237)
Canadiana Gallery Second Floor, Room 231 | 14 Queen's Park Crescent West | Toronto ON M5S 3K9

Email: crimsl.undergrad@utoronto.ca

Website: <https://www.crimsl.utoronto.ca/>

Regarding Criminology and Sociolegal Programs

Note 1. Enrolment in criminology programs is limited. Achieving the minimum required marks does not necessarily guarantee admission to the program in any given year. Requests for admission will be considered in the first program request period only. For detailed program application instructions, please consult the [Arts & Science Program Toolkit](#). Do not change your program after Year 3 if you are required to complete your degree in four years as prerequisites and program requirements will not be waived. Due to the limited enrolment nature of this program students are strongly advised to enrol in backup programs.

Note 2. [CRI205H1](#), [CRI210H1](#), [CRI215H1](#), [CRI225H1](#), [CRI350H1](#) must be completed on the St. George Campus. Transfer and second-degree students may have received transfer credits that can potentially count towards Criminology programs subject to the approval of the Undergraduate Coordinator. Transfer and second-degree students should contact crimsl.undergrad@utoronto.ca.

Criminology and Sociolegal Studies Programs

Criminology and Sociolegal Studies - Specialist (Arts Program) - ASSPE0826

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 9.0 credits and meet the requirements listed below to enrol. Note there are different options depending on whether a student has completed between 9.0 and 13.5 credits, or 14.0 or more credits.

For students who have completed between 9.0 and 13.5 credits:

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- CRI205H1, CRI210H1 and CRI225H1

For reasons of limited capacity, applicants with a final grade average lower than 80% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade average does not guarantee admission to the program.

Special Requirement

- Student must be enrolled in the Criminology and Sociolegal Studies Major (ASMAJ0826)

For students who have completed 14.0 or more credits:

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- 2.0 credits in CRI courses at the 300+-level
- 1.0 credit from: CRI205H1, CRI210H1 and CRI225H1

To ensure that students admitted to the program will be successful, applicants with a final grade average lower than 80% in these required courses will not be considered for admission. Please note that obtaining this minimum

final grade average does not guarantee admission to the program.

Special Requirement

- Student must be enrolled in the Criminology and Sociolegal Studies Major (ASMAJ0826)

Notes:

- Requests for admission will be considered in the first program request period only.
- Due to the limited enrolment nature of this program students are strongly advised to plan to enroll in backup programs.

Completion Requirements:

Each course requirement is individual and cannot be used more than once.

Total credits: 11.0 of which 7.0 credits must be CRI courses (including 3.0 credits at the 300+ level and 1.0 credit at the 400-level).

1. 2.0 credits from ECO/HIS/PHL/POL/PSY/SOC
2. All of CRI205H1, CRI210H1, CRI215H1, CRI225H1, CRI335H1, CRI340H1, CRI350H1
3. At least 3.0 credits from Group A
4. At least 1.0 credit from Group B
5. Additional credits (excluding those already counted) from Groups A, B or C for a total of 11.0 credits

Note: Students may use a maximum of 1.0 credit from Independent Study courses and 1.0 credit from Research Participation courses towards the Criminology & Sociolegal Studies program.

Group A: CRI300H1/ CRI322H1/ CRI343H1/ CRI345H1/ CRI364H1/ CRI365H1/ CRI370H1/ CRI380H1/ CRI383H1/ CRI385H1/ CRI386H1/ CRI390H1/ CRI391H1/ CRI392H1/ CRI393H1/ CRI394H1/ CRI395H1/ CRI396H1/ CRI450H1

Group B: CRI420H1/ CRI422H1/ CRI425H1/ CRI427H1/ CRI428H1/ CRI429H1/ CRI431H1/ CRI435H1/ CRI480H1/ CRI487H1/ CRI490H1/ CRI491H1/ CRI492H1/ CRI493H1/ CRI494H1/ CRI498H1

Group C: HIS324H1/ HIS375H1/ HIS411H1/ PHL271H1/ PHL370H1/ PSY201H1/ PSY202H1/ PSY220H1/ PSY240H1/ PSY328H1/ SOC205H1/ SOC212H1/ SOC313H1/ SOC315H1/ SOC413H1/ TRN412H1/ CRI389Y0

Note about non CRI courses:

1. Group C courses are offered by other departments. Registration in these courses may

be available only to students who have completed specified prerequisites and/or are enrolled in a program sponsored by the department offering the course. Course enrolment conditions are listed in the Arts and Science timetable. Course descriptions, prerequisites, corequisites and exclusions are listed in the Calendar.

- Students who have completed criminology/sociolegal type courses in the Faculty of Arts and Science that are not included in Group C may email the Program Coordinator to find out if the courses can be used towards the Group C program requirements.

Criminology and Sociolegal Studies - Major (Arts Program) - ASMAJ0826

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- 2.0 credits from ECO, HIS, PHL, POL, PSY, or SOC courses (any course level and combination)

For reasons of limited capacity, applicants with a final grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade average does not guarantee admission to the program.

Notes:

- Requests for admission will be considered in the first program request period only.
- Due to the limited enrolment nature of this program students are strongly advised to plan to enroll in backup programs.

Completion Requirements:

Students must complete a total of 8.0 credits including a minimum of 2.0 credits from 300+level CRI courses, of these 0.5 CRI credit must be at the 400-level.

- 2.0 credits from ECO/HIS/PHL/POL/PSY/SOC
- All of CRI205H1, CRI210H1, CRI215H1, CRI225H1
- At least 2.0 credits at the 300+ level from Group A, at least 0.5 credit must be at the 400-level
- At least 0.5 credit from Group B
- Additional courses (excluding those already counted) from Groups A and C for a total of 8.0 credits

Note: Students may use a maximum of 1.0 credit from Independent Study courses and 1.0 credit from Research Participation courses towards the Criminology & Sociolegal Studies program.

Group A: CRI300H1/ CRI322H1/ CRI335H1/ CRI340H1/ CRI343H1/ CRI345H1/ CRI364H1/ CRI365H1/ CRI370H1/ CRI380H1/ CRI383H1/ CRI385H1/ CRI386H1/ CRI390H1/ CRI391H1/ CRI392H1/ CRI393H1/ CRI394H1/ CRI395H1/ CRI396H1/ CRI420H1/ CRI422H1/ CRI425H1/ CRI427H1/ CRI428H1/ CRI429H1/ CRI431H1/ CRI435H1/ CRI480H1/ CRI487H1/ CRI490H1/ CRI491H1/ CRI492H1/ CRI493H1/ CRI494H1/ CRI498H1

Group B: PSY201H1/ PSY202H1/ SOC202H1/ CRI350H1

Group C: HIS375H1/ HIS411H1/ PHL271H1/ PHL370H1/ PSY220H1/ PSY240H1/ PSY328H1/ SOC205H1/ SOC212H1/ SOC313H1/ SOC315H1/ SOC413H1/ TRN412H1/ CRI389Y0

Important Notes:

- Group C Courses: These courses are offered by other academic units. Registration in these courses may be available only to students who have completed specified prerequisites and/or are enrolled in a program sponsored by the academic unit offering the course. Check the Faculty of Arts and Science's timetable for details.
- Students who have completed criminology/sociolegal type courses in the Faculty of Arts and Science (not included in Group C) may email the Program Coordinator to find out if these courses can be used towards the Group C requirements.

Not all courses are offered every year. Please check the timetable for current course offerings and enrolment restrictions/conditions. Students without course prerequisites may be removed at any time during the enrolment period. Course descriptions, prerequisites, corequisites and exclusions are listed below.

Criminology and Sociolegal Studies Courses

CRI205H1 - Introduction to Criminology

Hours: 24L/12T

An introduction to the study of crime and criminal behaviour. The concept of crime, the process of law formation, and the academic domain of criminology. Theories of crime causation, methodologies used by criminologists, and the complex relationship between crime, the media and modern politics.

Prerequisite: 4.0 credits

Recommended Preparation: 2.0 credits from ECO/HIS/PHL/POL/PSY/SOC with a combined average of at least 70%

Breadth Requirements: Society and its Institutions (3)

CRI210H1 - Criminal Justice

Hours: 24L/12T

An introduction to the Canadian criminal justice system. The institutions established by government to respond to crime and control it; how they operate, and the larger function they serve; including the role of the police, the trial process, courts and juries, sentencing, imprisonment and community corrections.

Prerequisite: CRI205H1

Breadth Requirements: Society and its Institutions (3)

CRI215H1 - Introduction to Sociolegal Studies

Hours: 24L/12T

The course covers several major issues that will help prepare students for advanced courses in the criminology major: the meaning of law, the production of laws and legal institutions, law in action, comparative legal traditions, and the methodology of sociolegal studies.

Prerequisite: 4.0 credits

Recommended Preparation: 2.0 credits from ECO/HIS/PHL/POL/PSY/SOC with a combined average of at least 70%

Breadth Requirements: Society and its Institutions (3)

CRI225H1 - Criminal Law

Hours: 24L/12T

The main principles and themes of Canadian criminal law; legal definitions of crime, requirements of a criminal act (actus reus), criminal intention (mens rea), causation and defences. The origins, goals and functioning of criminal law, and limits on the power of the state to criminalize behaviour.

Prerequisite: 4.0 credits

Recommended Preparation: 2.0 credits from ECO/ HIS/ PHL/ POL/ PSY/ SOC with a combined average of at least 70%

Breadth Requirements: Society and its Institutions (3)

CRI299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

CRI300H1 - Theories of Criminal Justice

Hours: 36L

A survey of the evolution of normative theories of criminal justice, which examines how major theorists from the Enlightenment to the contemporary period have understood the normative justification for criminal prohibition and punishment. Although the course focuses on western political philosophy and social science, there will also be some attention to theories of criminal justice in selected non-western traditions.

Prerequisite: (CRI205H1 and CRI225H1) or 1.0 credit at the 300+ level from HIS/PHL/POL/SOC

Breadth Requirements: Society and its Institutions (3)

CRI322H1 - Inequality and Criminal Justice

Hours: 36L

This course examines the intersections between social inequality and the criminal justice system in Canada and internationally. The course explores how factors such as race, ethnicity, gender, sexual orientation and religion influence perceptions of and experiences with crime and criminal justice.

Prerequisite: 1.0 credit from: CRI205H1, CRI210H1, SOC212H1

Exclusion: CRI391H1 (Topics in Criminology and Sociolegal Studies: Inequality and Criminal Justice) offered in Winter 2018, Summer 2018, Summer 2019, Winter 2020, SOC322H5

Breadth Requirements: Society and its Institutions (3)

CRI335H1 - Policing

Hours: 36L

A theoretical framework is developed to examine the nature of policing, its structure and function. Attention is given to the history of policing as a global form of social practice. We examine the perspectives of both “the police” and “the policed”, as well as the objectives, domains, strategies, and authority of contemporary policing, including decision-making, organizational culture, and accountability.

Prerequisite: CRI210H1/ CRI215H1

Breadth Requirements: Society and its Institutions (3)

CRI340H1 - Punishment: Theory and Practice

Hours: 36L

The study of punishment from historical and philosophical perspectives, with a focus on contemporary Canadian policy issues. Topics covered include penal theory, prisons and non-carceral forms of punishment, and the goals of penal reform.

Prerequisite: CRI205H1, CRI210H1, CRI225H1

Breadth Requirements: Society and its Institutions (3)

CRI343H1 - Comparative Criminal Justice

Hours: 36L

Criminal justice issues outside Canada, based on a variety of international and historical studies. The evolution of criminal justice systems in Western Europe, including the English adversarial and continental European inquisitorial approaches. A comparison of policing, criminal procedure, forms of punishment, and crime rates in the contemporary world.

Prerequisite: CRI205H1, CRI210H1, CRI225H1

Breadth Requirements: Society and its Institutions (3)

CRI345H1 - History of Criminal Justice

Hours: 36L

The course offers a historical perspective on the development of the legal doctrines, professions and institutions that define criminal justice in Canada and the broader common law world today. Topics include the shift from medieval trial by ordeal and torture to the modern reliance on expert witnesses and forensic science; the emergence of the adversarial trial; the growth of the legal profession; the birth of policing; the rise of the penitentiary; and the changing fortunes of the death penalty. The course focuses primarily on the period from the eighteenth century to the present. Students will be introduced to historical debates and ways of thinking and writing about law and crime. We will explore how culture, politics, economics and social life are essential to how we understand the foundational elements of criminal justice, including concepts of truth, guilt, legitimacy, fairness and violence.

Prerequisite: 1.0 credit from: CRI215H1, CRI210H1, SOC212H1, SOC313H1, HIS268H1, any HIS 300+ level course. Any course combination from this list is acceptable.

Exclusion: CRI392H1 (Topics in Criminology and Sociolegal Studies: History of Criminal Justice in the Common Law World) offered in Winter 2018, Winter 2019, Winter 2020

Breadth Requirements: Society and its Institutions (3)

CRI350H1 - Understanding Criminological Research

Hours: 36L

An introduction to social science research methods used by criminologists and to the statistical analysis of criminological data. An understanding of the strengths and weaknesses of published criminological research is developed. Specific technical issues related to sampling, measurement, and data analysis are taught in the context of examining ways of answering research questions.

Prerequisite: CRI205H1, CRI210H1

Exclusion: SOC200H1, SOC200Y1

Breadth Requirements: Society and its Institutions (3)

CRI364H1 - Indigenous Peoples & Criminal Justice

Hours: 36L

An introduction to issues affecting Indigenous peoples in the Canadian criminal justice system identified by

Indigenous scholars, activists and allies. Topics include: effects of colonization, legal discrimination and disenfranchisement, Treaties and land claims, criminalization, Indigenous activism, and the Truth and Reconciliation Commission.

Prerequisite: 1.0 credit from: CRI205H1, CRI210H1, CRI215H1, CRI225H1

Exclusion: CRI394H1 Topics: Indigenous Peoples & Criminal Justice taken in 20171

Breadth Requirements: Society and its Institutions (3)

CRI365H1 - Crime and Mind

Hours: 36L

Legal, psychological and sociological understandings of issues in the criminal justice system, through a consideration of topics including: criminal intent, the Not Criminally Responsible on Account of Mental Disorder defence, the use of battered woman syndrome as part of a self-defence, infanticide, issues of transcultural psychiatry, and jury screening for bias.

Prerequisite: 1.0 credit from: CRI205H1, CRI210H1, CRI225H1

Breadth Requirements: Society and its Institutions (3)

CRI370H1 - Youth Justice

Hours: 36L

The course will examine what is known about offending by youths and the various purposes that have been attributed to youth justice systems. The course will focus, in large part, however, on the nature of the laws and youth justice systems that have been designed in Canada and elsewhere to respond to offending by youths.

Prerequisite: CRI205H1, CRI210H1, CRI225H1

Breadth Requirements: Society and its Institutions (3)

CRI372H1 - Regulating Citizenship

Hours: 36L

The course examines selected topics in the scholarly study of citizenship, including the history of citizenship, normative theories of democratic citizenship, rights and duties of citizenship, acquisition and loss of citizenship, and related issues, such as multiple citizenship, statelessness, and the international law of citizenship. Readings come from law, history, political science, and other disciplines; and cover Canada, other western societies, and developing countries. The course

comprises three basic units: the normative basis and historical evolution of citizenship, including a case study of Canada, policies governing the acquisition and loss of citizenship in Canada and elsewhere, and the parameters of citizenship and lack of citizenship in the contemporary world. Students will gain an understanding of the historical evolution of forms of political membership in both western and non-western societies, the constitutive role of citizenship in creating and maintaining individual rights, and the development and contemporary regulation of Canadian citizenship in comparative international perspective.

Prerequisite: 1.0 credit from: CRI205H1, CRI210H1, CRI225H1

Exclusion: CRI392H1 (Topic: *Regulating Citizenship*) offered in Fall 2021, CRI394H1 (Topic: *Regulating Citizenship*) offered in Fall 2017, 2018, and 2019

Breadth Requirements: Society and its Institutions (3)

CRI380H1 - Crime, Gender and Sex

Hours: 36L

Theory, research and policy related to the ways in which gender shapes criminal behaviour, the administration of criminal justice, and the criminal law. How notions of different types of masculinity and femininity are embedded in and influence both the operation of the criminal justice system as well as criminal behaviours. The regulation of gender and sexuality through the criminal law and through crime.

Prerequisite: (CRI205H1 and CRI210H1) or (70% in SOC212H1 and enrolment in Sociology program)

Breadth Requirements: Society and its Institutions (3)

CRI383H1 - Immigration, Ethnicity and Crime

Hours: 36L

The connection between immigration and crime, the effect of immigration on crime rates, discrimination against immigrants, the representation of immigrants in crime statistics, public perception of risk and security, and criminal justice policy changes which affect immigration. We consider research conducted in North America and Europe.

Prerequisite: CRI205H1 or SOC212H1

Breadth Requirements: Society and its Institutions (3)

CRI385H1 - Representing Crime and Authority

Hours: 36L

Cultural constructions of crime, disorder, dangerousness and risk are integral parts of the criminal justice system. A critical analysis of how criminal justice personnel, the media, and academic criminologists construct their authority through symbols and images, in order to “explain” and manage crime, and how these representations are regarded in public discourse.

Prerequisite: 1.0 credit from: CRI205H1, CRI210H1, CRI225H1

Breadth Requirements: Society and its Institutions (3)

CRI386H1 - Origins of Criminal Justice

Hours: 36L

Criminal justice practice, as well as political debate concerning crime and criminal justice, are often influenced by ideas that are initially developed outside the criminal justice arena. This course examines the history, current influence and efficacy of a range of such ideas, such as: the role of religious practice in rehabilitating offenders; military service and participation in sports as preventive of delinquency; the influence of environmental pollution on crime rates; the concept of the ‘problem family’; intelligence based policing and the use of management theories in criminal justice organizations.

Note: The course may include an optional Service Learning component. If offered, additional information will be provided in the Faculty of Arts and Science's timetable.

Prerequisite: CRI205H1, CRI210H1

Exclusion: CRI390H1 Roots of Criminal Justice Policy taken in 2014/2015/2016/2017.

Breadth Requirements: Society and its Institutions (3)

CRI389Y0 - Topics in Criminology and Sociolegal Studies Abroad

Topics in Criminology and Sociolegal Studies offered in an international setting. The content may vary from year to year.

Details are posted on the Summer Abroad website.

Prerequisite: Consult the Summer Abroad Program Office.

Breadth Requirements: Society and its Institutions (3)

CRI390H1 - Topics in Criminology and Sociolegal Studies

Hours: 36L

The objective of the course is to explore emerging issues in Criminology, and their social, legal, ethical and political implications. Topics vary from year to year.

Prerequisite: 1.0 credit from: CRI205H1, CRI210H1, CRI225H1

Breadth Requirements: Society and its Institutions (3)

CRI391H1 - Topics in Criminology and Sociolegal Studies

Hours: 36L

The objective of the course is to explore emerging issues in Criminology, and their social, legal, ethical and political implications. Topics vary from year to year.

Prerequisite: 1.0 credit from: CRI205H1, CRI210H1, CRI225H1

Breadth Requirements: Society and its Institutions (3)

CRI392H1 - Topics in Criminology and Sociolegal Studies

Hours: 36L

The objective of the course is to explore emerging issues in Criminology, and their social, legal, ethical and political implications. Topics vary from year to year.

Prerequisite: 1.0 credit from: CRI205H1, CRI210H1, CRI225H1

Breadth Requirements: Society and its Institutions (3)

CRI393H1 - Topics in Criminology and Sociolegal Studies

Hours: 36L

The objective of the course is to explore emerging issues in Criminology, and their social, legal, ethical and political implications. Topics vary from year to year.

Prerequisite: 1.0 credit from: CRI205H1, CRI210H1, CRI225H1

Breadth Requirements: Society and its Institutions (3)

CRI394H1 - Topics in Criminology and Sociolegal Studies

Hours: 36L

The objective of the course is to explore emerging issues in Criminology, and their social, legal, ethical and political implications. Topics vary from year to year.

Prerequisite: 1.0 credit from: CRI205H1, CRI210H1, CRI225H1

Breadth Requirements: Society and its Institutions (3)

CRI395H1 - Independent Study

Independent study under the direction of a faculty member. It is recommended that student approaches a Criminology and Sociolegal Studies Faculty member who might willing to supervise their work in CRI395H1. If student has found a faculty member willing to supervise their proposal, they must complete the application form with the help of their supervisor. A detailed description of the proposal is required. Enrolment is limited to students in the Criminology and Sociolegal Studies program. Students are not entitled to take more than 1.0 credit of CRI395H1 course.

Consult the program website for additional information. Not eligible for CR/NCR option.

Prerequisite: CRI205H1, CRI210H1, CRI225H1 and 1.0 CRI credit at the 300-level

Exclusion: CRI395Y1

Breadth Requirements: Society and its Institutions (3)

CRI396H1 - Research Participation

Credit course for supervised participation in a faculty research project. Offered only when a full-time appointed faculty member from the Centre for Criminology & Sociolegal Studies is willing and available to supervise. Students must contact faculty members currently teaching in the Criminology and Sociolegal Studies program to find out if there are any research participation opportunities available. Students requesting enrolment in a research participation course are advised to select an alternative course until the status of their enrolment is confirmed. Together with your supervisor, complete and submit a request for enrolment application form and the research ethics approval confirmation letter (if required). Submit the form by the beginning of the first week of the semester.

Consult the program website for additional information. Not eligible for CR/NCR option.

Prerequisite: 9.0 credits

Exclusion: CRI397Y1

Recommended Preparation: CGPA 3.0 recommended

Breadth Requirements: Society and its Institutions (3)

CRI399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

CRI420H1 - Current Issues in Criminal Law

Hours: 24S

An advanced seminar exploring in detail current issues in criminal law. The objective of the course is to discuss current policy and case law developments in the criminal law, and their social, political and ethical implications. The role of Parliament and the judiciary in the development of the criminal law is considered. Topics vary from year to year.

Prerequisite: 1.0 CRI credit at the 300-level

Breadth Requirements: Society and its Institutions (3)

CRI422H1 - Indigenous Law

Hours: 24S

Seminar course exploring Indigenous law, settler state law, and the complex interrelationship between the two in Canada. Topics include: legal sources, forms and processes; sovereignty, territory and jurisdiction; treaty relationships; Indigenous peoples in international law; Indigenous rights and the constitution; environmental use, relations and protection; and Indigenous self-determination and governance.

Prerequisite: 1.0 credit from: CRI205H1, CRI210H1, CRI215H1, CRI225H1 and a 0.5 CRI credit at the 300-level

Exclusion: CRI490H1 Advanced Topics in Criminology: Indigenous Law taken in 20169

Breadth Requirements: Society and its Institutions (3)

CRI425H1 - The Prosecution Process

Hours: 24L

A critical examination of the process by which certain conduct is identified, prosecuted and punished as “crime”, and the process by which individuals become “criminals”. The evolution of the modern prosecution system, including the exercise of prosecutorial discretion, rules of evidence, socially constructed defences, disparity in sentencing, and wrongful convictions.

Prerequisite: CRI205H1, CRI210H1, CRI225H1, 0.5 CRI credit at the 300-level

Breadth Requirements: Society and its Institutions (3)

CRI427H1 - Organized Crime and Corruption

Hours: 24S

An advanced seminar exploring the history and characteristics of organized crime and corruption.

Prerequisite: 1.0 CRI credit at the 300-level

Breadth Requirements: Society and its Institutions (3)

CRI428H1 - Policing the City: Crime, Community and Inequality

Hours: 24S

An advanced seminar exploring the connection between neighbourhoods and the perpetuation of poverty, social marginalization, segregation and crime. The course may include an optional Service Learning component. Check the timetable for details.

Prerequisite: 1.0 CRI credit at the 300-level

Breadth Requirements: Society and its Institutions (3)

CRI429H1 - Youth Culture, Racialization and Crime in the Global Context

Hours: 24S

An advanced seminar exploring youth culture and its possible connection to criminality from an international perspective.

Prerequisite: 1.0 CRI credit at the 300-level (0.5 may be substituted by a 300+ level HIS/PHL/PSY/SOC course)

Breadth Requirements: Society and its Institutions (3)

CRI431H1 - Mental Health, Morality & Legal Controls

Hours: 24S

A critical exploration of contemporary debates in criminology, and legal and moral philosophy concerning the diagnostic and criminal justice labeling of mental disorders such as psychopathy and paedophilia, and their representation in popular culture.

Prerequisite: 1.0 CRI credit at the 300-level

Breadth Requirements: Society and its Institutions (3)

CRI435H1 - Advanced Seminar in Policing

Hours: 24S

This course will explore policing in a comparative and historical context. Issues to be covered include the following: the maintenance of law and order before police forces; development of police forces in continental Europe and the English-speaking world; structure and function of national police forces around the world today; the role of political and secret police forces; and contemporary debates on the mission and regulation of the police in contemporary North America including issues such as police-community relations, private policing, and counter-terrorism.

Prerequisite: 1.0 CRI credit at the 300-level

Exclusion: CRI3130H1

Breadth Requirements: Society and its Institutions (3)

CRI450H1 - Advanced Research/Reading

A supervised individual or group project under the direction of a faculty member from the Centre for Criminology & Sociolegal Studies. Offered only when a full-time appointed faculty member from the Centre for Criminology & Sociolegal Studies is willing and available to supervise. Students must contact Faculty members currently teaching in the Criminology and Sociolegal Studies program to find out if there are any individual or group project opportunities available. Students requesting enrolment in a research participation course are advised to select an alternative course until the status of their enrolment is confirmed. Together with your supervisor, complete and submit a request for enrolment application form and the research ethics approval confirmation letter (if required). Submit the form by the beginning of the first

week of the semester. Form is available on the Program Office [website](#).

Not eligible for CR/NCR option.

Prerequisite: 1.5 CRI credits at the 300-level

Breadth Requirements: Society and its Institutions (3)

CRI480H1 - Interpersonal Violence

Hours: 24S

The meaning, purposes and sources of interpersonal violence, including an examination of debates over defining and documenting violence, and a review of the research on the relationships between illegitimate, interpersonal violence and state-approved or state-initiated violence. Cultural, social and individual correlates of interpersonal violence; the violence of the law; and how violence is justified and denied.

Prerequisite: 1.0 CRI credit at the 300-level

Breadth Requirements: Society and its Institutions (3)

CRI482H1 - Security Governance

Hours: 24S

The course will examine selected topics in security governance. Complementing university courses on public or state policing, which emphasize the role of the state in maintaining public order, we will examine how security is jointly produced through the interactions of state, commercial, civil society, and individual actors. Topics to be covered include the following: the public police and theories of security governance, private and privatized policing, plural policing and other non-state sources of public order, and private ownership of weapons. Students should gain an understanding of the myriad ways in which the state and other actors interact to create, maintain, and reshape public order.

Prerequisite: 1.0 CRI credit at the 300-level

Exclusion: CRI491H1 (Topic: *Security Governance*) offered in Fall 2021, CRI492H1 (Topic: *Security Governance*) offered in Fall 2022

Breadth Requirements: Society and its Institutions (3)

CRI487H1 - Law, Space, and the City

Hours: 24S

An introduction to interdisciplinary studies of law and space, this course covers a broad range of topics, from work on empire and colonialism by legal historians and

indigenous scholars to studies of national spaces, urban spaces, and bodily spaces. Some background in either legal studies or cultural geography is desirable. Open to students in law, geography, anthropology, women/gender studies, and sociology, though permission of the instructor is required.

Prerequisite: 1.0 CRI credit at the 300-level

Exclusion: CRI3256H (when offered as a joint course)

Breadth Requirements: Society and its Institutions (3)

CRI490H1 - Advanced Topics in Criminology and Sociolegal Studies

Hours: 24S

The objective of the course is to explore emerging issues in Criminology, and their social, legal, ethical and political implications. Topics vary from year to year.

Prerequisite: 1.0 CRI credit at the 300-level

Breadth Requirements: Society and its Institutions (3)

CRI491H1 - Advanced Topics in Criminology and Sociolegal Studies

Hours: 24S

Topics vary from year to year. The objective of the course is to explore emerging issues in Criminology, and their social, legal, ethical and political implications.

Prerequisite: 1.0 CRI credit at the 300-level

Breadth Requirements: Society and its Institutions (3)

CRI492H1 - Advanced Topics in Criminology and Sociolegal Studies

Hours: 24S

The objective of the course is to explore emerging issues in Criminology, and their social, legal, ethical and political implications. Topics vary from year to year.

Prerequisite: 1.0 CRI credit at the 300-level

Breadth Requirements: Society and its Institutions (3)

CRI493H1 - Advanced Topics in Criminology and Sociolegal Studies

Hours: 24S

Topics vary from year to year. The objective of the course is to explore emerging issues in Criminology, and their social, legal, ethical and political implications.

Prerequisite: 1.0 CRI credit at the 300-level

Breadth Requirements: Society and its Institutions (3)

CRI494H1 - Advanced Topics in Criminology and Sociolegal Studies

Hours: 24S

Topics vary from year to year. The objective of the course is to explore emerging issues in Criminology, and their social, legal, ethical and political implications.

Prerequisite: 1.0 CRI credit at the 300-level

Breadth Requirements: Society and its Institutions (3)

CRI498H1 - Intensive Course

Content in any given year depends on instructor. Intensive courses are offered by distinguished visitors from around the world. Students in their 4th year are strongly encouraged to take advantage of this unique opportunity to study with one or more outstanding visiting international scholars that the Centre for Criminology & Sociolegal Studies brings from time to time. The intensive course usually runs for approximately 3-4 weeks.

Breadth Requirements: Society and its Institutions (3)

Data Science

Introduction

Data Science is an emerging science that involves the ubiquitous problem of learning from data in a wide variety of disciplines. The building blocks of data science include computer science, statistics, and mathematics. Disciplines such as biology, English, economics, and geography generate and use data to tackle problems, and are a key part of the data science ecosystem. What data should and shouldn't be collected? How should society use data, and data derived predictions? are fundamental questions related to the societal, cultural, philosophical, legal, and historical implications of the emerging uses of data.

The University of Toronto is a global destination for data-science-driven research and education, and is home to one of the world's leading data science ecosystems that includes award winning faculty and data science researchers that are helping to address some of today's most challenging issues. Within the Faculty of Arts & Science there is no single data science department; many of our faculty members across several departments teach courses with significant data science components. We also offer a variety of programs of study in data science and related disciplines, including the data science specialist program, programs in computer science, statistical sciences, and more in the humanities, social sciences, and sciences, listed throughout this page.

Foundational Data Science Courses

There are a wide range of foundational Data Science courses offered within the Faculty of Arts & Science, which provide a starting point for students of all backgrounds, interests, and academic and career goals.

Preparing for Programs in Data Science, Statistical Sciences, or Computer Science

Students who intend to pursue Specialist or Major programs in Data Science, Statistical Sciences, or Computer Science should enroll in [STA130H1](#) and [CSC108H1](#) (or [CSC110Y1](#) if in the First-Year Computer Science Admission Category). [STA130H1](#) is an introduction to the field of Data Science, using a combination of logical thinking, mathematics, computer simulation, and oral and written discussion and analysis.

[CSC108H1](#) and [CSC110Y1](#) is an introduction to the field of computer science, including the programming and computational thinking skills that are vital to data science studies. See below for a description and course requirements of the Data Science Specialist Program and other related programs.

Preparing for Other Programs that Incorporate Data Science

For students who are interested in pursuing other programs but who want to apply Data Science knowledge and skills to their studies, we offer three interdisciplinary foundational Data Science courses: [EEB125H1](#) (for students in the Physical and Life Sciences), [GGR274H1](#) (for students in the Social Sciences), and [ENG286H1](#) (for students in the Humanities). Each of these courses covers the same core Data Science content but is tailored to students in each sector through a combination of domain-specific applications and themes.

While the foundational Data Science courses all have a significant computational component, there is no **programming experience required** for any of them. Instead, these courses teach the relevant programming skills throughout, so that all students can write computer programs to analyze data by the end of the course. Students who complete [EEB125H1](#), [GGR274H1](#), or [ENG286H1](#) and are interested in gaining a more in-depth introduction to computer programming should consider taking [CSC108H1](#) and other computer science courses.

Data Science Specialist Program

The Data Science Specialist Program is a program offered jointly between the Department of Statistical Sciences and the Department of Computer Science. This program comprises three fundamental and highly-integrated aspects. Students will acquire expertise in statistical reasoning, methods, and inference essential for any data analyst; in-depth training in computer science - the design and analysis of algorithms and data structures for handling large amounts of data; and best practices in software design. This includes training in machine learning, which lies at the intersection of computer and statistical sciences. The third aspect is the application of computer science and statistics to produce analyses of complex, large-scale datasets, and the communication of the insights resulting from these analyses. Students will receive training in these areas by taking integrative courses that are designed specifically for the Data Science Specialist Program. These courses involve experiential learning: students will be solving real world data science problems that involve real datasets from a variety of domains such as business, social sciences, and medicine. The successful student will combine their expertise in computer and statistical science to collect,

clean, wrangle complex large-scale datasets, and produce and communicate analyses.

Students may also be interested in exploring other programs and courses offered by the Department of Statistical Sciences or Department of Computer Science. In particular, their Specialist and Major programs share most of the same first-year requirements as the Data Science Specialist program.

Data Science in the Humanities

Large datasets and new computational techniques are reshaping our understanding of the humanities — and humanistic inquiry is raising pressing questions about their ethics and impact. A humanities approach to Data Science equips students with the practical and theoretical skills to engage critically with literary data and computation. What insights emerge when we move “close” to “distant” reading practices — from the close examination of a few canonical texts to algorithmic investigation of vast archives? How comprehensive are existing humanities datasets, and what gaps exist in them? What biases and assumptions are enshrined and naturalized in code?

In the humanities, scholars use computational approaches to large datasets to study a huge range of topics:

- How cities work in science fiction
- How Black women abolition activists changed the language and society of the nineteenth century United States
- How Indigenous data sovereignty needs to inform digital research
- How historians can use data about imprisonment to understand the past and the present
- How data reflects power differences in our societies, and may be used to improve health and share culture – but also to surveil and discriminate
- What datasets are missing, and what their absence tells us about our world

Students in humanities-focused Data Science courses learn how to create computer programs, to negotiate tradeoffs between computational and statistical techniques, and how to make arguments with and about data. They will weigh the merits of quantitative and qualitative approaches to problems in the humanities, engage critically with gaps and biases in datasets, learn to make persuasive arguments with data, and engage with urgent scholarly approaches to issues of the race, gender, disability, and environmental impacts of large-scale computing, data science, and algorithmic decision-making.

Data Science in the Social Sciences

Social scientists are increasingly working with big and complex datasets that contain spatial, group-level, and individual-level dimensions to answer questions about society. This involves projects as diverse as simulating the spread of disease across geographic space to using data on housing prices to understand why market bubbles occur to exploring how social network structure links to the spread of misinformation. Students will develop introductory programming knowledge and data acumen in order to create and run computer programs to explore where, when, and why social processes occur, drawing on theories from geography, linguistics, sociology, anthropology, economics, political science, and psychology. Instruction will focus on applying current data analysis libraries, communicating and translating data science methods to both researchers and the public, distinguishing causation from correlation and coincidence, and negotiating tradeoffs between different computational and statistical approaches.

Data Science in the Physical and Life Sciences

Life and physical scientists increasingly use big and complex datasets to answer questions about society and the natural world. More than ever, advances in biology, chemistry, and physics require data science thinking and quantitative skills. This importance highlights the urgency to gaining aptitude in the ability to break a complex problem into simpler parts with computational and statistical approaches, as well as in the collection, organization, interpretation, and clear communication of complex data. The Faculty of Arts & Science offers several programs of study that intentionally bridge data science learning to disciplinary topics in the life and physical sciences through the departments of Cell & Systems Biology, Chemistry, Ecology & Evolutionary Biology, and Physics.

Programs Incorporating Data Science

Data Science, Computer Science, Statistical Sciences, and Mathematics

Applied Data Science Minor (Science Program) - ASMIN0160

More than at any other time in our history, we are living through a paradigm shift in how we think about data. Advances in computing power, algorithms for data modeling and machine learning, coupled with unparalleled access to vast quantities of data has transformed disciplines across the sciences, social sciences, and humanities. The Minor in Applied Data Science will help students learn fundamental data science methodologies drawn from computing and statistics and provide opportunities to apply these methodologies to datasets, problem domains, and explorations in many disciplines of study in Arts & Science. Understanding the human and ethical contexts and communicating results of data science methodologies will appear in courses throughout the program.

The minor is designed to complement programs in other areas with opportunities for data science applications (see program requirements for pertinent programs). This program is designed to be accessible to students who have never done any computer programming or statistics before, or who haven't taken high school or university calculus. All skills necessary to succeed in the program are taught in our courses. Most students who are interested in this program should start by choosing one of our three introductory, interdisciplinary data science courses: EEB125H1, GGR274H1, or ENG286H1, which introduce data science skills such as computer programming, statistical reasoning, and data visualization within the context of a particular discipline. Students then proceed to take a suite of key computer science and statistics courses that reinforce and extend these skills, with an emphasis on applications to real-world problems. Finally, in later years students will choose from a wide variety of courses drawn from across the Faculty of Arts & Science. These upper-year courses will provide the opportunity to discuss and analyze the human contexts of data science, and to apply data science methodologies in discipline-specific contexts.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum may change each year depending on available spaces and the number of applicants. Eligibility is based on the following criteria:

- A. Completion of one of EEB125H1/ ENG286H1/ GGR274H1/ ESS245H1/ STA130H1 with a grade of at least 60%, OR
- B. Completion of one of CSC108H1/ CSC110Y1/ CSC148H1 with a grade of at least 60%, OR
- C. Completion of one of ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ PSY201H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA261H1/ STA288H1 with a grade of at least 60%.

Obtaining this minimum grade does not guarantee admission to the program. If students have completed more than one of the above courses at the time of admission, the minimum grade will be based on the higher course grade.

Note: Students enrolled in this program cannot be simultaneously enrolled in or complete any Computer Science or Statistics programs, including the Computer Science Minor, Statistics Minor, and Data Science Specialist; nor the Focus in Data Analytics within the Economics Major or Specialist; nor the Focus in Data Science in Business within the Rotman Commerce specialist programs.

Completion Requirements:

(4.0 credits)

1. EEB125H1/ ENG286H1/ GGR274H1/ ESS245H1/ STA130H1
2. 0.5 credit from CSC108H1/ CSC110Y1/ CSC148H1
3. 0.5 credit from ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ PSY201H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA261H1/ STA288H1

Note: If you completed STA238H1, STA248H1, and/or STA261H1 before being admitted to the Minor, please note that these courses are exclusions to EEB125H1, ENG286H1, GGR274H1, and STA130H1. You can complete ESS245H1 to meet requirement 1 or can instead complete an additional 0.5 credit from the list of courses in requirement 7, for a total of 1.5 credits for requirement 7.

If you completed CSC148H1 before being admitted to the Minor, please note that this course is an exclusion to EEB125H1, ENG286H1, and GGR274H1. You can complete ESS245H1 or STA130H1 to meet requirement 1 or can instead complete an additional 0.5 credit from the

list of courses in requirement 7, for a total of 1.5 credits for requirement 7.

4. [CSC271H1](#) (first offering in 2025-26)
5. [STA272H1](#) (first offering in 2025-26)
6. [PHL277H1](#)/ [PHL377H1](#)/ [HPS246H1](#)/ [CSC300H1](#)

7. At least 1.0 credit from the following courses:
[BCB410H1](#)/ [BCB420H1](#)/ [CHM326H1](#)/ [CHM328H1](#)/
[CSB352H1](#)/ [CSB435H1](#)/ [CSB434H1](#)/ [CSB471H1](#)/
[CSB472H1](#)/ [DHU338H1](#)/ [EEB313H1](#)/ [EEB319H1](#)/
[EEB365H1](#)/ [EEB458H1](#)/ [EEB460H1](#)/ [EEB463H1](#)/
[ENV338H1](#)/ [ESS452H1](#)/ [GGR315H1](#)/ [GGR372H1](#)/
[GGR373H1](#)/ [GGR375H1](#)/ [GGR376H1](#)/ [GGR377H1](#)/
[GGR415H1](#)/ [GGR462H1](#)/ [GGR472H1](#)/ [GGR473H1](#)/
[IMM360H1](#)/ [IRE379H1](#)/ [JGA305H1](#)/ [JPM400Y1](#)/
[LIN305H1](#)/ [LIN405H1](#)/ [LIN456H1](#)/ [MGY441H1](#)/
[POL314H1](#)/ [POL352H1](#)/ [POL419H1](#)/ [PCL367H1](#)/
[PCL368H1](#)/ [PSL432H1](#)/ [PSY305H1](#)/ [SOC303H1](#)/ 0.5 or
1.0 credits from a 300-/400-level capstone, topics, or
independent study course(s) in which students apply data
science methodologies, and with prior approval of the
Applied Data Science Minor Program Director

Courses listed in requirement 7 are offered by academic units across the Faculty of Arts & Science. Please review the prerequisites and enrolment controls for the course(s) that you are planning to take to complete this requirement. Course enrolment controls are listed in the University's Timetable Builder. Course descriptions, prerequisites, corequisites, and exclusions are listed in both in the Timetable Builder and in the Faculty of Arts & Science Academic Calendar.

Computer Science Major (Science Program) - ASMAJ1689

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

For students admitted to Arts & Science in the Year 1 Computer Science (CMP1) admission category:

Completed courses (with minimum grades)

Students in the CMP1 admissions category have guaranteed admission to the Computer Science Major, provided the following courses with the stated minimum grades are completed within 12 months of beginning their studies:

- [CSC110Y1](#) (70%)
- [CSC111H1](#) (77%)
- [MAT137Y1](#)/ [MAT157Y1](#)

For students admitted to other Arts & Science Year 1 admission categories:

Special Requirement

- Students who do not have the Computer Science Admission Guarantee must complete a supplementary application to be considered for the program.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- [CSC148H1](#)
- [CSC165H1](#)/ [CSC240H1](#)

To ensure that students admitted to the program will be successful, applicants with a grade below 70% will not be considered for admission. Obtaining this minimum grade does not guarantee admission to the program.

Notes:

1. Requests for admission will be considered in the first program request period only.
2. Due to the limited enrolment nature of this program, students are strongly advised to plan to enrol in backup programs.
3. Students admitted to the program after second or third year will be required to pay retroactive deregulated program fees.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Computer Science Major in the Summer [after](#) Year 2.

Completion Requirements:

(8.0 credits, including at least one 0.5 credit at the 400-level)

First year (2.5 credits):

1. ([CSC108H1](#), [CSC148H1](#), [CSC165H1](#)/ [CSC240H1](#))/ ([CSC110Y1](#), [CSC111H1](#)); [MAT137Y1](#)/ [MAT157Y1](#) / ([MAT135H1](#), [MAT136H1](#))

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Notes:

- Students with a strong background in an object-oriented language such as Python, Java or C++ may omit CSC108H1 and proceed directly with CSC148H1. [There is no need to replace the missing 0.5 credit for program completion; however, please base your course choice on what you are ready to take, not on “saving” a 0.5 credit].
- CSC240H1 is an accelerated and enriched version of CSC165H1 plus CSC236H1, intended for students with a strong mathematical background, or who develop an interest after taking CSC165H1. If you take CSC240H1 without CSC165H1, there is no need to replace the missing half-credit for program completion; but please see Note (a).
- Consult the Undergraduate Office for advice about choosing among CSC108H1 and CSC148H1, and between CSC165H1 and CSC240H1.
- We recommend that students take MAT137Y1 or MAT157Y1, as they have been determined to provide the best preparation for upper-year courses in computer science and benefit students in CSC165H1/ CSC240H1.

Second year (2.5 credits):

2. CSC207H1, CSC236H1/ CSC240H1, CSC258H1, CSC263H1/ CSC265H1, STA247H1/ STA237H1/ STA255H1/ STA257H1

Later years (3.0 credits):

3. 3.0 credits of courses selected from the following list:

- CSC209H1; CSC299H1; CSC299Y1; any 300-/400-level CSC course; BCB410H1; BCB420H1; BCB330Y1/ BCB430Y1; MAT223H1/ MAT240H1; MAT235Y1/ MAT237Y1/ MAT257Y1, any 300-/400-level MAT course except MAT329Y1, MAT390H1, MAT391H1; STA414H1

These 3.0 credits must include:

- at least one 0.5 credit from a 400-level CSC/ BCB course
- at least 1.5 additional credits from 300-/ 400-level CSC/ BCB courses
- no more than 0.5 credit from CSC412H1/ STA414H1
- no more than 0.5 credit from CSC438H1/ MAT309H1

No more than 1.0 credit from CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1, BCB330Y1/ BCB430Y1 may be used to fulfill program requirements.

The choices in 3 must satisfy the requirement for an integrative, inquiry-based activity by including one of the following courses: CSC301H1, CSC302H1, CSC316H1, CSC318H1, CSC404H1, CSC413H1, CSC417H1, CSC418H1, CSC419H1, CSC428H1, CSC454H1, CSC485H1, CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1. Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

Transfer credits (except for those attained through a University of Toronto exchange program) cannot comprise more than 1.0 credit at the 300-/ 400-level, and cannot be used to satisfy the requirement for an integrative, inquiry-based activity. In addition, transfer credits (except for those attained through a University of Toronto exchange program) cannot be used to satisfy the requirement for 0.5 credit at the 400-level in CSC/ BCB.

Computer Science Minor (Science Program) - ASMIN1689

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

For students admitted to Arts & Science in the Year 1 Computer Science (CMP1) admission category:

Completed courses (with minimum grades)

Students in the CMP1 admissions category have guaranteed admission to the Computer Science Minor, provided the following courses with the stated minimum grades are completed within 12 months of beginning their studies:

- CSC110Y1 (70%)
- CSC111H1 (70%)

For students admitted to other Arts & Science Year 1 admission categories:

Special Requirement

- Students who do not have the Computer Science Admission Guarantee must complete a supplementary application to be considered for the program.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- [CSC148H1](#)
- [CSC165H1/ CSC240H1](#)

To ensure that students admitted to the program will be successful, applicants with a grade below 70% will not be considered for admission. Obtaining this minimum grade does not guarantee admission to the program.

Notes:

1. Requests for admission will be considered in the first program request period only.
2. Due to the limited enrolment nature of this program, students are strongly advised to plan to enroll in backup programs.

Completion Requirements:

(4.0 credits)

1. ([CSC108H1/ CSC120H1, CSC148H1, CSC165H1/ CSC240H1](#))/ ([CSC110Y1, CSC111H1](#))

Notes:

- a. Students with a strong background in an object-oriented language such as Python, Java or C++ may omit [CSC108H1](#) and proceed directly with [CSC148H1](#).
- b. [CSC240H1](#) is an accelerated and enriched version of [CSC165H1](#) plus [CSC236H1](#), intended for students with a strong mathematical background, or who develop an interest after taking [CSC165H1](#).
- c. Consult the Undergraduate Office for advice about choosing among [CSC108H1](#) and [CSC148H1](#), and between [CSC165H1](#) and [CSC240H1](#).

2. [CSC207H1, CSC236H1/ CSC240H1](#)

(Total of above requirements: 2.5 credits. If you take fewer than 2.5 credits, you must take more than 1.5 credits from the next list, so that the total is 4.0 credits.)

3. 1.5 credits from the following list, of which at least 1.0 credit must be at the 300-/400-level:

- CSC: any 200-/300-/400-level

Note:

- Computer Science Minors are limited to 1.5 credits from 300-/400-level CSC/ECE courses.
- Transfer credits cannot comprise more than 0.5 credit at the 300-/400-level.

Computer Science Specialist (Science Program) - ASSPE1689

Enrolment Requirements:

This is a limited enrolment program. Only students in the Year 1 Computer Science admission category (CMP1) who meet the criteria of the Computer Science program admission guarantee are eligible to apply to the Computer Science Specialist program.

Requests for admission will be considered in the first program request period only. Students must have completed 4.0 credits and meet the requirements listed below to apply.

Completed courses (with minimum grades)

Students in the CMP1 admissions category have guaranteed admission to the Computer Science Specialist, provided the following courses with the stated minimum grades are successfully completed within 12 months of beginning their studies:

- [CSC110Y1](#) (70%)
- [CSC111H1](#) (77%)
- [MAT137Y1/ MAT157Y1](#)

Note:

1. If you are admitted to the CS Specialist in a session other than the summer after your first year (including if you are admitted after completing summer courses), you may be charged retroactive program fees. More information about retroactive fees can be found in the [Faculty of Arts & Science Fees & Refund](#) page.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Computer Science Specialist in the Summer after Year 2.

Completion Requirements:

(12.0 credits, including at least 1.5 credits at the 400-level)

First year (2.5 credits):

1. (CSC110Y1, CSC111H1), MAT137Y1/ MAT157Y1

Notes:

- a. CSC110Y1 and CSC111H1 must be completed in order to complete the Specialist program. No course substitutions will be accepted for CSC110Y1 and/or CSC111H1.
- b. Students seeking an enriched introduction to the theory of computing may choose to enrol in CSC240H1 in their first year. Please consult the department's Undergraduate Office for advice about enrolling in CSC240H1.

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream. (See **Note** below)

Second year (3.5 credits):

2. CSC207H1, CSC209H1, CSC236H1/ CSC240H1, CSC258H1, CSC263H1/ CSC265H1, MAT223H1/ MAT240H1; STA247H1/ STA237H1/ STA255H1/ STA257H1

Later years (6.0 credits):

3. CSC369H1, CSC373H1

4. 5.0 credits of courses selected from the following list:

- Any 300-/400-level CSC course; BCB410H1; BCB420H1; BCB330Y1/ BCB430Y1; MAT224H1/ MAT247H1; MAT235Y1/ MAT237Y1/ MAT257Y1; any 300-/400-level MAT course except MAT329Y1, MAT390H1, MAT391H1; STA248H1/ STA238H1/ STA261H1; any 300-/400-level STA course

These 5.0 credits must include:

- at least 1.5 credits from 400-level CSC or BCB courses
- no more than 2.0 credits from MAT or STA courses (excluding STA414H1)
- no more than 0.5 credits from CSC311H1/ STA314H1
- no more than 0.5 credits from CSC412H1/ STA414H1
- no more than 0.5 credits from CSC438H1/ MAT309H1

No more than 1.0 credit from CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1, BCB330Y1/ BCB430Y1 may be used to fulfill program requirements.

The choices in 4 must satisfy the requirement for an integrative, inquiry-based activity by including one of the following courses: CSC301H1, CSC302H1, CSC316H1, CSC318H1, CSC404H1, CSC413H1, CSC417H1, CSC418H1, CSC419H1, CSC428H1, CSC454H1, CSC485H1, CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1. Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

Transfer credits (except for those attained through a University of Toronto exchange program) cannot comprise more than 1.0 credit at the 300-/400-level, and cannot be used to satisfy the requirement for an integrative, inquiry-based activity. In addition, transfer credits (except for those attained through a University of Toronto exchange program) cannot comprise more than 0.5 credit of the 400-level CSC or BCB courses required.

Choosing courses

This program offers considerable freedom to choose courses at the 300-/400-level, and you are free to make those choices on your own. We are eager to offer guidance, however, and both our Undergraduate Office and individual faculty members are a rich source of advice.

Data Science Specialist (Science Program) - ASSPE1687

The field of Data Science is a combination of statistics and computer science methodologies that enable 'learning from data'. A data scientist extracts information from data, and is involved with every step that must be taken to achieve this goal, from getting acquainted with the data to communicating the results in non-technical language. The Data Science Specialist program prepares students for work in the Data Science industry or government and for graduate studies in Data Science, Computer Science, or Statistics. Students in the program will benefit from a range of advanced courses in Computer Science and Statistics offered by the University of Toronto, as well as from a sequence of three integrative courses designed especially for the program.

The Data Science Specialist program comprises three fundamental and highly-integrated aspects. First, students will acquire expertise in statistical reasoning, methods, and inference essential for any data analyst. Second, students will receive in-depth training in computer science: the design and analysis of algorithms and data structures for handling large amounts of data, and best practices in

software design. Students will receive training in machine learning, which lies at the intersection of computer and statistical sciences. The third aspect is the application of computer science and statistics to produce analyses of complex, large-scale datasets, and the communication of the results of these analyses; students will receive training in these areas by taking integrative courses that are designed specifically for the Data Science Specialist program. The courses involve experiential learning: students will be working with real large-scale datasets from the domain of business, government, and/or science. The successful student will combine their expertise in computer and statistical science to produce and communicate analyses of complex large-scale datasets.

Skills that graduates of the program will acquire include proficiency in statistical reasoning and computational thinking; data manipulation and exploration, visualization, and communication that are required for work as a data scientist; the ability to apply statistical methods to solve problems in the context of scientific research, business, and government; familiarity and experience with best practices in software development; and knowledge of current software infrastructure for handling large data sets. Graduates of the program will be able to demonstrate the ability to apply machine learning algorithms to large-scale datasets that arise in scientific research, government, and business; create appropriate data visualizations for complex datasets; identify and answer questions that involve applying statistical methods or machine learning algorithms to complex data, and communicating the results; present the results and limitations of a data analysis at an appropriate technical level for the intended audience.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

For students admitted to Arts & Science in the Year 1 Computer Science (CMP1) admission category:

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on the number of applicants. At least 20 spaces will be available each year for students applying from Year 1 Computer Science (CMP1) within 12 months of beginning their studies:

- CSC110Y1
- CSC111H1
- MAT137Y1/ MAT157Y1
- STA130H1/ STA261H1*

* STA130H1 is restricted to first-year students, therefore students are strongly encouraged to take STA130H1 in their first year. STA261H1 will be used in place of STA130H1 for program admission purposes if a student

has not completed STA130H1 or if they have completed both STA130H1 and STA261H1 by the time they are being considered for admission.

To ensure that students admitted to the program will be successful, applicants will not be considered for admission with a grade lower than 70% in CSC110Y1, MAT137Y1, and STA130H1/ STA261H1, or lower than 77% in CSC111H1. (MAT157Y1 grades will be adjusted to account for the course's greater difficulty.) Obtaining these minimum grades does not guarantee admission to the program.

For students admitted to other Arts & Science Year 1 admission categories:

Special Requirement

- Students who do not have the Computer Science Admission Guarantee must complete a supplementary application to be considered for the program.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- CSC148H1
- MAT137Y1/ MAT157Y1
- STA130H1/ STA261H1*

* STA130H1 is restricted to first-year students, therefore students are strongly encouraged to take STA130H1 in their first year. STA261H1 will be used in place of STA130H1 for program admission purposes if a student has not completed STA130H1 or if they have completed both STA130H1 and STA261H1 by the time they are being considered for admission.

To ensure that students admitted to the program will be successful, applicants with a grade lower than 70% will not be considered for admission. (MAT157Y1 grades will be adjusted to account for the course's greater difficulty.) Obtaining these minimum grades does not guarantee admission to the program.

Notes:

1. Requests for admission will be considered in the first program request period only.
2. Due to the limited enrolment nature of this program, students are strongly advised to plan to enroll in backup programs.
3. Students admitted to the program after second or third year will be required to pay retroactive deregulated program fees.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Data Science Specialist in the Summer after Year 2.

Completion Requirements:

(13.0-13.5 credits, including at least 1.5 credits at the 400-level)

First year (3.0-3.5 credits)

[MAT137Y1](#)/ [MAT157Y1](#), [MAT223H1](#)/ [MAT240H1](#) ([MAT240H1](#) is recommended), [STA130H1](#), ([CSC108H1](#), [CSC148H1](#))/ ([CSC110Y1](#), [CSC111H1](#))

Note: Students with a strong background in an object-oriented language such as Python, Java or C++ may omit [CSC108H1](#) and proceed directly with [CSC148H1](#). There is no need to replace the missing half-credit for program completion; however, please base your course choice on what you are ready to take, not on "saving" a half-credit. Consult with the Computer Science Undergraduate Office for advice on choosing between [CSC108H1](#) and [CSC148H1](#).

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second year (3.5-4.0 credits)

[MAT237Y1](#)/ [MAT257Y1](#), [STA257H1](#), [STA261H1](#), [CSC207H1](#), ([CSC165H1](#), [CSC236H1](#))/ [CSC236H1](#)/ [CSC240H1](#) ([CSC240H1](#) is recommended), [JSC270H1](#) (Data Science I)

Note: [CSC240H1](#) is an accelerated and enriched version of [CSC165H1](#) plus [CSC236H1](#), intended for students with a strong mathematical background, or who develop an interest after taking [CSC165H1](#). If you take [CSC240H1](#) without [CSC165H1](#), there is no need to replace the missing half-credit for program completion; however, please base your course choice on what you are ready to take, not on "saving" a half-credit. Consult the Computer Science Undergraduate Office for advice on choosing between [CSC165H1](#) and [CSC240H1](#). [CSC236H1](#) may be taken without [CSC165H1](#) for students who completed [CSC111H1](#).

Later years (6.5 credits/7.0 credits for students who have not completed [STA130H1](#) (see 4.))

1. [STA302H1](#), one of [STA303H1](#) or [STA305H1](#), [STA355H1](#), [CSC209H1](#), [CSC263H1](#)/ [CSC265H1](#) ([CSC265H1](#) is recommended), [CSC343H1](#), [CSC373H1](#), [JSC370H1](#) (Data Science II)

2. [STA314H1](#)/ [CSC311H1](#)
3. 2.0 credits from the following list, including at least 1.0 credit at the 400-level (see below for additional conditions): [STA303H1](#)/ [STA305H1](#) (whichever one was not taken previously), [STA313H1](#)/ [CSC316H1](#), [STA347H1](#), [CSC401H1](#), [STA414H1](#)/ [CSC412H1](#), [CSC413H1](#)/ [CSC421H1](#), any 400-level STA course; [JSC470H1](#) (*Data Science III*); [CSC454H1](#), [CSC490H1](#), [CSC491H1](#), [CSC494H1](#), [CSC495H1](#), [CSC494Y1](#).
4. If a student has not completed [STA130H1](#) then an additional 0.5 credit 300+ level STA course that is not used towards any other program requirement must be completed.

The choices from 3 must satisfy the requirement for an integrative, inquiry-based activity by including at least 0.5 credit from the following: [JSC470H1](#) (*Data Science III*); [CSC454H1](#), [CSC490H1](#), [CSC491H1](#), [CSC494H1](#), [CSC495H1](#), [CSC494Y1](#), [STA490Y1](#), [STA496H1](#), [STA497H1](#), [STA498Y1](#), [STA499Y1](#). Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

Transfer credits (except for those attained through a University of Toronto exchange program) cannot comprise more than 1.0 credit at the 300-/400-level, and cannot be used to satisfy the requirement for an integrative, inquiry-based activity. In addition, transfer credits (except for those attained through a University of Toronto exchange program) cannot comprise more than 0.5 credit of the 400-level CSC or STA or JSC courses required.

Students will be advised to develop domain expertise in at least one area where Data Science is applicable, by taking a sequence of courses in that area throughout their program. Examples of such areas will be provided to students by program advisors and will form the basis for a later proposal for program Focuses (to be approved through internal Arts & Science governance procedures).

Note:

-If you do not complete [STA130H1](#) in your first year of study, this requirement must be fulfilled by completing a 300 or 400-level 0.5 credit STA course to replace [STA130H1](#). Please note that the 300 or 400-level STA course used to replace [STA130H1](#) cannot be a course that is already being used to meet a program completion requirement.

Mathematics & Its Applications Specialist (Probability/Statistics) (Science Program) - ASSPE1890

The Specialist in Mathematics & Its Applications (Probability/Statistics) is directed toward students whose interests include both Mathematics and its applications in Probability and Statistics. These skills are in high demand in a world in which the uses of AI are expanding by leaps and bounds.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students are encouraged to take their introductory calculus/analysis, algebra, and computer programming in their first year of study (MAT157Y1/ MAT137Y1, MAT223H1/ MAT240H1, MAT224H1/ MAT247H1, CSC108H1, CSC148H1).

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Mathematics & Its Applications Specialist (Probability/Statistics) in the Summer after Year 2.

Completion Requirements:

11.5-12.5 credits

Fundamentals for Mathematical Applications in Probability and Statistics

1. Calculus, Analysis and Proofs: 2.0 – 2.5 credits from MAT157Y1/ (MAT137Y1, MAT246H1), MAT237Y1/ MAT257Y1
2. Algebra: 1.0 credit from MAT223H1/ MAT240H1, MAT224H1/ MAT247H1
3. Ordinary Differential Equations: MAT244H1/

MAT267H1

4. Computer Programming: CSC108H1, CSC148H1
5. Probability and Statistics: STA237H1/ STA257H1, STA238H1/ STA261H1, STA347H1/ MAT377H1

Ethical and Social Responsibility

6. 0.5 credit with a significant emphasis on ethics and social responsibility (list below)

Further Studies in Probability and Statistics

7. Data Analysis: STA302H1
8. Related Structures: 1.0 credit from STA355H1/ MAT332H1/ MAT344H1/ APM348H1/ APM461H1
9. Advanced Statistics: 1.0 credit from STA452H1/ STA453H1/ STA437H1/ STA442H1/ STA447H1/ STA465H1/ STA410H1

Further Studies in Mathematics

10. Groups and Symmetries: MAT301H1
11. Complex Variables: MAT334H1
12. Real Analysis: MAT337H1
13. Partial Differential Equations or Optimization: 0.5 credit from APM346H1/ MAT351Y1/ APM462H1
14. Advanced Topics: Additional 1.0 credit at the 300+ level from APM/MAT courses

Notes:

- Not all courses listed have priority enrolment for students enrolled in this program. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
- Each course can count toward only one requirement, even if listed as options to multiple requisites of the program.
- CSC108H1 is waived for students who complete CSC148H1 first. If a student has not taken a year-long course in programming in secondary school, it is strongly recommended that students take CSC108H1 first.
- Students may use CR/NCR on the course they use toward the ethics and social responsibility credit.
- Students in their last year of study with a cGPA of 3.5 or higher may be permitted to take up to 1.5 credits of Math graduate courses. These courses may count toward specialist program requirements, where relevant (e.g., as courses “at the 400-level”). To review eligibility criteria and apply for graduate courses as an undergraduate student, find more information on the A&S Math website.

Courses accepted towards this program's ethics requirement:

CSC300H1/ CSE240H1/ CSE270H1/ EEB215H1/ ENV200H1/ ESS205H1/ any ETH200+/ FOR201H1/ HIS268H1/ HPS200H1/ HPS202H1/ INS200H1/ JPH441H1/ PHL265H1/ PHL271H1/ PHL273H1/ PHL275H1/ PHL281H1/ PHL295H1/ SDS256H1/ another suitable course with permission from the Associate Chair, Undergraduate

Specialist in Statistical Science: Methods and Practice (Science Program) - ASSPE2270

Statistical Science encompasses methods and tools for obtaining knowledge from data and for understanding the uncertainty associated with this knowledge. The purposes of the undergraduate programs are to: (1) equip students with a general framework for obtaining knowledge from data; (2) give students skills that they are able to flexibly apply to a variety of problems; and (3) to provide students with the ability to learn new methods as needs, data sources, and technology change.

The Specialist Program in Statistical Science: Methods and Practice is distinguished from the specialist program in Statistical Science: Theory and Methods through its emphasis on collaborative statistical practice and advanced exposure to an allied discipline. The program includes fundamental concepts in probability and statistical theory with mathematical prerequisites relevant to statistical practice. Students in the program acquire advanced expertise in statistical reasoning, methods, and computation, and complete a focus in another discipline that permits students to become conversant in that discipline to the extent that they can effectively collaborate. Students will also acquire advanced skills in communication, consultation and collaboration and an understanding of the role of mathematical thinking to support the development and evaluate the properties of statistical methods.

Enrolment Requirements:

This is a limited enrolment program. Note there are different admission criteria depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

For students who have completed between 4.0 and 8.5 credits:

Completed Courses (some with minimum grades)
The following courses are required:

- STA130H1
- CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1
- MAT223H1/ MAT224H1/ MAT240H1
- (MAT135H1 and MAT136H1) with a minimum grade of 73% in each/ MAT137Y1 (63%)/ MAT157Y1 (63%)

Variable Minimum Grade Average

A minimum grade average in STA130H1 and (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1 is needed for entry. This minimum grade average changes each year depending on available spaces and the number of applicants.

Note:

- Students who take (MAT135H1 and MAT136H1) will typically require a higher minimum grade average than students who take MAT137Y1/ MAT157Y1.

- STA130H1 is restricted to first-year students, therefore students are strongly encouraged to take STA130H1 in their first year. If you are unable to complete STA130H1 in first year, see notes below for accepted substitutions for this requirement.

For students who have completed 9.0 or more credits:

Completed Courses (some with minimum grades)

The following courses are required:

- CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1
- MAT223H1/ MAT224H1/ MAT240H1
- MAT235Y1/ MAT237Y1/ MAT257Y1
- (STA237H1 and STA238H1) with a minimum grade of 73% in each/ (STA247H1 and STA248H1) with a minimum grade of 73% in each/ (STA257H1 and STA261H1) with a minimum grade of 63% in each.

Variable Minimum Grade Average

A minimum grade average in (STA237H1 and STA238H1)/ (STA247H1 and STA248H1)/ (STA257H1 and STA261H1) and MAT235Y1/ MAT237Y1/ MAT257Y1 is needed for entry. This minimum grade average changes each year depending on available spaces and the number of applicants.

Note:

Students who take (STA237H1, STA238H1)/ (STA247H1, STA248H1) will typically require a higher minimum grade average than students who take (STA257H1, STA261H1).

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility,

selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Specialist in Statistical Science: Methods and Practice in the Summer after Year 2.

Completion Requirements:

(10.5 or 11.0 credits plus a disciplinary focus requiring 2.0-3.5 credits)

First year:

1. [STA130H1](#), ([CSC108H1](#), [CSC148H1](#))/ ([CSC110Y1](#), [CSC111H1](#))/ ([CSC110Y1](#), [CSC148H1](#)), ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#). ([MAT137Y1](#)/ [MAT157Y1](#) recommended)

Notes:

- Students with a strong background in an object-oriented language such as Python, Java or C++ may omit [CSC108H1](#) and proceed directly with [CSC148H1](#). [There is no need to replace the missing 0.5 credit for program completion; however, please base your course choice on what you are ready to take, not on “saving” a 0.5 credit].

2. Recommended: introductory course in disciplinary focus. [MAT223H1](#)/ [MAT224H1](#)/ [MAT240H1](#) is also strongly recommended to be taken in first year and is required preparation for [MAT237Y1](#).

Second year:

3. [MAT223H1](#)/ [MAT224H1](#)/ [MAT240H1](#), [MAT235Y1](#)/ [MAT237Y1](#)/ [MAT257Y1](#), ([STA237H1](#), [STA238H1](#))/ ([STA247H1](#), [STA248H1](#))/ ([STA257H1](#), [STA261H1](#))

(([STA257H1](#), [STA261H1](#)) recommended)

Upper years:

4. [STA302H1](#), [STA303H1](#), [STA304H1](#)/ [STA305H1](#), [STA313H1](#)/ [STA314H1](#)/ [STA365H1](#), [STA355H1](#)

5. 1.5 credits from the following list: [STA414H1](#), [STA437H1](#), [STA442H1](#), [STA457H1](#), [STA465H1](#), [STA475H1](#), [STA480H1](#), [STA410H1](#)

6. [STA490Y1](#). Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

7. 1.0 credit from the following list: [MAT224H1](#)/ [MAT247H1](#), [MAT337H1](#)/ [MAT357H1](#), [CSC207H1](#), or any remaining 300+ level STA courses not used toward other requirements of this program - [STA304H1](#), [STA305H1](#),

[STA313H1](#), [STA314H1](#), [STA347H1](#), [STA365H1](#), [STA410H1](#), [STA414H1](#), [STA437H1](#), [STA442H1](#), [STA447H1](#), [STA450H1](#), [STA452H1](#), [STA453H1](#), [STA457H1](#), [STA465H1](#), [STA475H1](#), [STA480H1](#), [STA492H1](#), [STA496H1](#)/ [STA497H1](#) ([STA399H1](#) and [STA399Y1](#) may be considered on a case by case basis with the approval of the Program Director.)

Notes:

-If you do not complete [STA130H1](#) in your first year of study, this requirement must be fulfilled by completing a 300 or 400-level 0.5 credit STA course to replace [STA130H1](#). Please note that the 300 or 400-level STA course used to replace [STA130H1](#) cannot be a course that is already being used to meet a program completion requirement.

Disciplinary Focuses

Students in the Specialist Program in Statistical Science: Methods and Practice program must enrol in and complete at least one disciplinary focus.

To enrol in one or more focuses, students must first be enrolled in the Specialist Program in Statistical Science: Methods and Practice program. Enrolment instructions can be found on the [Arts & Science Program Toolkit website](#). Focuses can be chosen on ACORN after admission to the program, which begins in July.

Health Studies (ASFOC2270A): (2.0 credits) [HMB342H1](#), at least 0.5 credit from [HST209H1](#)/ [HST211H1](#)/ [HST250H1](#), and at least 0.5 credit from [HST308H1](#)/ [HST310H1](#)/ [HST405H1](#)/ [HST330H1](#)/ [HST440H1](#)/ [HST464H1](#)

Global Health (ASFOC2270B): (3.0 credits) [BIO120H1](#), [BIO130H1](#), [HMB203H1](#), [HMB265H1](#), [HMB323H1](#)/ [HMB303H1](#)/ [HMB306H1](#)/ [JNH350H1](#)/ [HMB342H1](#), [HMB433H1](#)/ [HMB406H1](#)/ [HMB462H1](#)/ [HAJ453H1](#)/ [HMB434H1](#) (Recommended: [HMB433H1](#))

Health and Disease (ASFOC2270C): (3.0 credits) [BIO120H1](#), [BIO130H1](#), [HMB202H1](#), [HMB265H1](#), [HMB302H1](#)/ [HMB322H1](#)/ [HMB312H1](#)/ [HMB342H1](#), [HMB422H1](#)/ [HMB402H1](#)/ [HMB432H1](#)/ [HMB434H1](#)/ [HMB435H1](#)/ [HMB436H1](#)/ [HMB437H1](#)/ [HMB452H1](#)/ [HMB462H1](#)

Fundamental Genetics and its Applications (ASFOC2270D): (3.0 credits) [BIO120H1](#), [BIO130H1](#), [HMB201H1](#), [HMB265H1](#), [HMB301H1](#)/ [HMB311H1](#)/ [HMB321H1](#)/ [HMB360H1](#), [HMB421H1](#)/ [HMB441H1](#)/ [HMB401H1](#)/ [HMB431H1](#) (Recommended: [HMB421H1](#))

Neuroscience (ASFOC2270E): (3.0 credits) [BIO120H1](#), [BIO130H1](#), [HMB200H1](#), [HMB265H1](#), [HMB300H1](#)/ [HMB310H1](#)/ [HMB320H1](#)/ [HMB360H1](#)/ [CJH332H1](#), [HMB420H1](#)/ [JHA410H1](#)/ [HMB430H1](#)/ [HMB450H1](#) (Recommended: [HMB420H1](#))

Social Psychology (ASFOC2270F): (2.0 credits)
PSY100H1, PSY220H1, PSY322H1, PSY326H1/
PSY321H1/ PSY424H1/ PSY426H1/ PSY405H1/
PSY406H1

Cognitive Psychology (ASFOC2270G): (2.0 credits)
PSY100H1, PSY270H1, PSY493H1, PSY372H1/
PSY405H1/ PSY406H1/ PSY475H1

Sociolinguistics (ASFOC2270H): (3.0 credits) LIN100Y1;
two of LIN228H1, LIN229H1, LIN232H1 or LIN241H1;
LIN351H1 and LIN456H1

Psycholinguistics (ASFOC2270I): (3.0 credits) LIN100Y1;
two of LIN228H1, LIN229H1, LIN232H1 or LIN241H1; two
of JLP374H1, JLP315H1 or JLP471H1

Astronomy & Astrophysics (ASFOC2270J): (2.5 or 3.0
credits) (PHY131H1, PHY132H1)/ (PHY151H1,
PHY152H1); AST221H1, AST222H1; (PHY252H1,
AST320H1)/ AST325H1/ AST326Y1

Sociology (ASFOC2270K): (2.5 credits) (SOC100H1,
SOC150H1) with a combined minimum grade average of
65%; SOC204H1; 1.0 credit from SOC303H1,
SOC312H1, SOC336H1, SOC355H1, SOC363H1,
SOC364H1.

Students interested in advanced study in Sociology should
consider additional courses, in particular SOC201H1,
SOC251H1, and SOC254H1

Ecology (ASFOC2270L): (3.0 credits) BIO120H1,
BIO220H1; 2.0 credits from (with at least a 0.5 credit at
the 400-level) EEB319H1/ EEB321H1/ EEB328H1/
EEB365H1/ EEB428H1/ EEB433H1/ EEB440H1 or
ENV234H1/ ENV334H1/ ENV432H1

Evolutionary Biology (ASFOC2270M): (3.5 credits)
BIO120H1, BIO130H1, BIO220H1; 1.5 credits from
HMB265H1/ BIO260H1, EEB318H1, EEB323H1,
EEB324H1, EEB325H1, EEB362H1, EHJ352H1; 0.5
credit from EEB440H1, EEB455H1, EEB458H1,
EEB459H1, EEB460H1

Notes:

- BIO260H1 requires BIO230H1 as a prerequisite.
- Students in the Focus in Evolutionary Biology can request that HMB waive the co-requisite of BIO230H1 for HMB265H1 and that EEB waive the prerequisite of BIO230H1 for EEB460H1. These waivers will only be considered for students in the Applied Statistics specialist focus in Evolutionary Biology. All other pre- and co-requisites are required.

Economics (ASFOC2270N): (3.5 credits) (ECO101H1,
ECO102H1), ECO200Y1/ ECO206Y1, ECO202Y1/

ECO208Y1, 0.5 credit 300+ series ECO course with the
exception of ECO374H1 and ECO375H1

Biochemistry (ASFOC2270O): (3.0 credits)
CHM135H1, CHM136H1, BCH210H1, BCH311H1,
BCH370H1, BCH441H1

Physics (ASFOC2270P): (2.5 credits)
PHY131H1/ PHY151H1, PHY132H1/ PHY152H1,
PHY224H1, PHY252H1/ PHY254H1/ PHY256H1,
PHY324H1

Pharmacology and Biomedical Toxicology
(ASFOC2270Q): (3.0 credits)
BIO130H1 (70%), PSL300H1, PSL301H1, PCL201H1,
PCL302H1, PCL345H1/ PCL362H1/ PCL381H1/
PCL469H1/ PCL470H1

Immunology (3.0 Credits) - BIO130H1 (70%), IMM250H1,
IMM340H1, IMM350H1, IMM360H1, IMM429H1/
IMM430H1/ IMM431H1/ IMM435H1

Students in the Focus in Immunology can request that
Immunology waive the BIO and BCH prerequisites for
IMM340H1, IMM360H1, and IMM435H1. These waivers
will only be considered for students in the Specialist in
Statistical Science: Methods and Practice Focus in
Immunology. All other pre- and co-requisites are required.

Specialist in Statistical Science: Theory and Methods (Science Program) - ASSPE2290

Statistical Science encompasses methods and tools for
obtaining knowledge from data and for understanding the
uncertainty associated with this knowledge. The purposes
of the undergraduate programs are to: (1) equip students
with a general framework for obtaining knowledge from
data; (2) give students skills that they are able to flexibly
apply to a variety of problems; and (3) to provide students
with the ability to learn new methods as needs, data
sources, and technology change.

The Specialist Program in Statistical Science: Theory and
Methods emphasizes probability and the theory of
statistical inference as underlying mathematical
frameworks for statistical data analysis. Students in the
program acquire advanced expertise in statistical theory
and methods, as well as an understanding of the role of
statistical science to solve problems in a variety of
contexts. The successful student will also acquire skills in
mathematical reasoning, computational thinking, and
communication in the context of solving statistical
problems.

Enrolment Requirements:

This is a limited enrolment program. Note there are different admission criteria depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

For students who have completed between 4.0 and 8.5 credits:

Completed Courses (some with minimum grades)

The following courses are required:

- STA130H1
- CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1
- MAT223H1/ MAT224H1/ MAT240H1
- MAT137Y1 (63%)/ MAT157Y1 (63%)

Variable Minimum Grade Average

A minimum grade average in STA130H1 and MAT137Y1/ MAT157Y1 is needed for entry. This minimum grade average changes each year depending on available spaces and the number of applicants.

Note:

- STA130H1 is restricted to first-year students, therefore students are strongly encouraged to take STA130H1 in their first year. If you are unable to complete STA130H1 in first year, see notes below for accepted substitutions for this requirement.

For students who have completed 9.0 or more credits:

Completed Courses (some with minimum grades)

The following courses are required:

- CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1
- MAT223H1/ MAT224H1/ MAT240H1
- MAT237Y1/ MAT257Y1
- STA257H1 (63%) and STA261H1 (63%)

Variable Minimum Grade Average

A minimum grade average in (STA257H1 and STA261H1) and MAT237Y1/ MAT257Y1 is needed for entry. This minimum grade average changes each year depending on available spaces and the number of applicants.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the

Specialist in Statistical Science: Theory and Methods in the Summer after Year 2.

Completion Requirements:

(11.0 or 11.5 credits)

First Year:

STA130H1, CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1, MAT137Y1/ MAT157Y1, MAT223H1/ MAT224H1/ MAT240H1

Second Year:

MAT224H1/ MAT247H1, MAT237Y1/ MAT257Y1; STA257H1, STA261H1

Higher Years:

1. STA302H1, STA303H1, STA304H1/ STA305H1, STA313H1/ STA314H1/ STA365H1, STA347H1, STA355H1

2. 1.0 credit from the following list: STA410H1, STA414H1, STA437H1, STA442H1, STA457H1, STA465H1, STA475H1, STA480H1

3. One of STA447H1, STA452H1, STA453H1

4. 1.0 credit from: ACT451H1, ACT452H1, ACT460H1, MAT327H1, MAT332H1, MAT334H1/ MAT354H1, MAT337H1/ MAT357H1, MAT301H1/ MAT347Y1, MAT344H1, CSC207H1, CSC336H1, CSC343H1, or any remaining 300+ level STA courses not used toward other program requirements - STA304H1, STA305H1, STA313H1, STA314H1, STA365H1, STA410H1, STA414H1, STA437H1, STA442H1, STA447H1, STA450H1, STA452H1, STA453H1, STA457H1, STA465H1, STA475H1, STA480H1, STA490Y1, STA492H1, STA496H1/ STA497H1 (STA399H1 and STA399Y1 may be considered on a case by case basis with the approval of the Program Director.)

5. One of STA492H1, STA496H1/ STA497H1/ STA498Y1/ STA499Y1. Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

Students planning to take any of these courses should ensure they have the required prerequisites

Note:

- If you do not complete STA130H1 in your first year of study, this requirement must be fulfilled by completing a 300 or 400-level 0.5 credit STA course to replace STA130H1. Please note that the 300 or 400-level STA course used to replace STA130H1 cannot be a course that is already being used to meet a program completion requirement.

Statistics Major (Science Program) - ASMAJ2289

Statistical Science encompasses methods and tools for obtaining knowledge from data and for understanding the uncertainty associated with this knowledge. The purposes of the undergraduate programs are to: (1) equip students with a general framework for obtaining knowledge from data; (2) give students skills that they are able to flexibly apply to a variety of problems; and (3) to provide students with the ability to learn new methods as needs, data sources, and technology change.

The Major in Statistics gives students a broad understanding of the statistical methods and computational and communication skills appropriate for effective statistical problem solving. The successful student will also acquire a general understanding of the role of mathematical thinking to support the development and evaluate the properties of statistical methods. While the Major is designed to complement study in an area of application of quantitative methods, students in the Major may choose to have a greater focus in probability and statistical theory through elective courses.

Enrolment Requirements:

This is a limited enrolment program. Note there are different admission criteria depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

For students who have completed between 4.0 and 8.5 credits:

Completed Courses

The following courses are required:

- STA130H1
- (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1

Variable Minimum Grade Average

A minimum grade average in STA130H1 and (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1 is needed for entry. This minimum grade average changes each year depending on available spaces and the number of applicants.

Note:

- Students who take (MAT135H1 and MAT136H1) will typically require a higher minimum grade average than students who take MAT137Y1/ MAT157Y1.
- STA130H1 is restricted to first-year students, therefore students are strongly encouraged to take STA130H1 in their first year. If you are unable to complete STA130H1 in first year, see notes below for accepted substitutions for this requirement.

For students who have completed 9.0 or more credits:

Completed Courses

The following courses are required:

- CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1
- MAT223H1/ MAT224H1/ MAT240H1
- MAT235Y1/ MAT237Y1/ MAT257Y1
- (STA237H1 and STA238H1)/ (STA247H1 and STA248H1)/ (STA257H1 and STA261H1)/ ECO227Y1

Variable Minimum Grade Average

A minimum grade average in (STA237H1 and STA238H1)/ (STA247H1 and STA248H1)/ (STA257H1 and STA261H1)/ ECO227Y1 and MAT235Y1/ MAT237Y1/ MAT257Y1 is needed for entry. This minimum grade average changes each year depending on available spaces and the number of applicants.

Note:

- Students who take (STA237H1 and STA238H1)/ (STA247H1 and STA248H1) will typically require a higher minimum grade average than students who take (STA257H1 and STA261H1)/ ECO227Y1.

Completion Requirements:

(7.0 or 7.5 credits, including a 0.5 credit STA 400-series course)

First Year:

STA130H1, CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1, (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1.

(MAT223H1/ MAT224H1/ MAT240H1 recommended in first year)

Second Year:

MAT223H1/ MAT224H1/ MAT240H1, MAT235Y1/ MAT237Y1/ MAT257Y1; (STA247H1, STA248H1)/ (STA237H1, STA238H1)/ (STA257H1, STA261H1)/ ECO227Y1

(STA237H1 and STA238H1 are strongly recommended. MAT221H1 may not be used for this requirement.)

Higher Years:

1. STA302H1
2. 0.5 credit from STA313H1/ STA314H1/ STA365H1/ STA347H1/ STA355H1
3. 0.5 credit from STA414H1/ STA437H1/ STA442H1/ STA457H1/ STA465H1/ STA475H1/ STA480H1
4. 1.0 credit from remaining STA300+ level courses not used toward other program requirements in the following list: STA303H1, STA304H1, STA305H1, STA313H1, STA314H1, STA347H1, STA355H1, STA365H1, STA410H1, STA414H1, STA437H1, STA442H1,

STA447H1, STA450H1, STA452H1, STA453H1, STA457H1, STA465H1, STA475H1, STA480H1, STA490Y1, STA492H1, STA496H1/ STA497H1 (STA399H1 and STA399Y1 may be considered on a case by case basis with the approval of the Program Director).

Note:

- If you do not complete STA130H1 in your first year of study, this requirement must be fulfilled by completing a 300 or 400-level 0.5 credit STA course to replace STA130H1. Please note that the 300 or 400-level STA course used to replace STA130H1 cannot be a course that is already being used to meet a program completion requirement.

Statistics Minor (Science Program) - ASMIN2289

Statistical Science encompasses methods and tools for obtaining knowledge from data and for understanding the uncertainty associated with this knowledge. The Minor in Statistics is designed to provide students with some exposure and skills in statistical methods. It complements programs in other disciplines which involve quantitative research.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year:

MAT133Y1 (70%)/(MAT135H1, MAT136H1)/MAT135Y/MAT137Y1/ MAT157Y1; CSC108H1/ CSC110Y1/CSC111H1/ CSC120H1/ CSC148H1. (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1 is strongly recommended).

STA130H1 is also strongly recommended.

Second Year:

MAT223H1/ MAT224H1/ MAT240H1, (STA220H1/ STA221H1/ ECO220Y1, STA255H1)/(STA237H1, STA238H1)/(STA247H1, STA248H1)/(STA257H1, STA261H1)/ ECO227Y1

MAT223H1/ MAT224H1/ MAT240H1 recommended in 1st year

Higher Years:

STA302H1

0.5 credit from the following list: STA303H1, STA304H1, STA305H1, STA313H1, STA314H1, STA347H1, STA355H1, STA365H1, STA410H1, STA437H1, STA450H1, STA457H1

Biology Programs in Genomics and Informatics

Bioinformatics and Computational Biology Specialist (Science Program) - ASSPE1868

The genomic and post-genomic era brings opportunities for new insight into all aspects of biology and medicine, based on the computational analysis of very large datasets in a biological context. The Bioinformatics and Computational Biology Program is an interdepartmental, interdisciplinary Program of Study that balances computer-science and life-science courses towards that goal. As a Specialist Program it is designed to prepare students for graduate studies in the field.

The Program is formally administered by the Department of Cell and Systems Biology and co-sponsored by the Departments of Biochemistry, Computer Science, Ecology and Evolutionary Biology, and Molecular Genetics; all sponsoring Departments have clear trajectories to extend the Program into graduate studies in the respective Department.

Note: this program has deregulated fees, which are incurred after enrolment in the program. Please refer to Arts & Science Registration Instructions for more information.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- [BIO130H1](#) and ([CSC108H1](#)/ [CSC148H1](#)/
[CSC110Y1](#))
or
- [BIO230H1](#) and [CSC236H1](#)

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 75% in these required courses will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program. While it is difficult to predict what will constitute a "competitive" grade average in a given year, based on previous years the estimate is =mid 80s.

Applications from students lacking a numerical grade in one of the specified prerequisites may be considered on the basis of their entire academic record and the availability of space in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the [Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Bioinformatics & Computational Biology Specialist in the Summer after Year 2.

Completion Requirements:

Specialist program:
(12.5 credits)

First or second year:

Foundational courses (5.0 credits total)
([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)
([CSC108H1](#), [CSC148H1](#))/ [CSC110Y1](#)
([CSC111H1](#)/ [CSC165H1](#), [CSC236H1](#))/ [CSC240H1](#) (1)
[CSC263H1](#)/ [CSC265H1](#)
([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#)
[BIO130H1](#)

Upper years:

Program requirements (7.5 credits total)
[STA237H1](#)/ [STA247H1](#)/ [STA255H1](#)/ [STA257H1](#)
[CSC207H1](#)
[CSC209H1](#)
[CSC373H1](#)
[BIO230H1](#)/ [BIO255H1](#)
[BIO260H1](#)/ [HMB265H1](#)
([BCH210H1](#), ([BCH311H1](#)/ [CSB349H1](#)/ [MGY311Y1](#)))/
[BCH242Y1](#)
[BCH441H1](#)/ [MGY441H1](#)/ [CSB472H1](#)
[BCB330Y1](#)
[BCB410H1](#)

[BCB420H1](#)
[BCB430Y1](#)

Students in this program have the option to complete the [Arts & Science Internship Program](#) (ASIP) stream

Notes:

BCB students are allowed to enrol in up to 2.5 CSC credits at the 300/400-level

Course substitutions are possible with written permission of the Program Director. Note that the requirements for a co-sponsoring Department's major can normally be fulfilled with 0.5 to 3.5 additional credits. All Major programs in the co-sponsoring life science departments require [BIO120H1](#), however, it is not formally a part of this Specialist Program's requirements.

(1) The "missing" 0.5 credit of the substitution does not have to be replaced. For details, please refer to the Computer Science Program instructions in this Calendar.

Former BCB students benefitted from taking [CSB352H1](#), Bioinformatic Methods. They also found it to be helpful to take [BCH441H1](#)/ [MGY441H1](#) prior to [BCB410H1](#) due to [BCB410H1](#)'s R programming requirement.

Genome Biology Major (Science Program) - ASMAJ2655

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Genome Biology Major in the Summer after Year 2.

Completion Requirements:

This program is a joint program of the departments of Cell & Systems Biology, Ecology & Evolutionary Biology, and Molecular Genetics. It is administered through the Department of Cell & Systems Biology.

(8.0 credits)

First year: BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1; (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Higher years:

1. BIO220H1, BIO230H1/ BIO255H1; BIO260H1/ HMB265H1; EEB225H1/ STA220H1
2. Genomics fundamentals: BCH311H1/ CSB349H1/ MGY311Y1, CSB352H1; EEB323H1
3. 0.5 credit laboratory course from: CSB472H1, CSB474H1; EEB460H1
4. 1.0 credit genomics elective from: CSB330H1, CSB350H1, CSB397Y0, CSB427H1, CSB435H1, CSB450H1, CSB457H1, CSB458H1, CSB471H1, CSB473H1, CSB490H1, CSB491H1, CSB497H1/ CSB498Y1/ CSB499Y1; EEB362H1, EEB455H1, EEB458H1, EEB459H1, EEB462H1, EEB463H1, EEB397Y1/ EEB497H1/ EEB498Y1/ EEB499Y1; EHJ352H1; MGY350H1, MGY360H1, MGY428H1, MGY470H1, MGY480Y1

NOTE: Students taking CSB397Y0, CSB490H1, CSB491H1, CSB497H1/ CSB498Y1/ CSB499Y1, EEB397Y1/ EEB497H1/ EEB498Y1/ EEB499Y1 or MGY480Y1 are encouraged to conduct a genomics-related research project.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Quantitative Biology Major (Science Program) - ASMAJ2368

The Quantitative Biology Major program (8.0 credits) is designed for students with a deep interest in biology who wish to gain a strong grounding in quantitative methods and their application to biological questions. More than ever, advancements in biology, from the molecular through the organismal to the ecosystem level, require quantitative thinking and skills along with a strong understanding of biological processes. Interdisciplinary research that draws from the natural sciences, mathematics, statistics and computer science, is an important aspect of modern biology. This major provides foundations in biology and quantitative approaches used to test and advance biological knowledge, and is appropriate for students who wish to pursue a career or graduate studies in a broad range of life sciences, ranging from biomedical to conservation to epidemiology.

The program is delivered through a mixture of classroom-learning and applied laboratory teaching, with an emphasis on understanding how quantitative methods inform our understanding of biology, and how they can be applied to test and develop new hypotheses. Students

also have access to independent research opportunities that enhance professional skills, science communication, and the development and application of knowledge in quantitative biology.

Quantitative Biology Major students have priority enrollment in the EEB courses listed, but not in courses offered by other departments, such as STA, MAT, CSC, CSB and BCB. Students should be aware that some courses listed have prerequisites that are not listed below. For students intending to pursue graduate studies, it is strongly recommended that an independent research course such as EEB498Y1 be included as part of the Quantitative Biology major.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- BIO120H1 (70%)/ BIO130H1 (70%)
- CSC108H1 (70%)/ CSC148H1 (70%)/ CSC110Y1 (70%)/ MAT135H1 (70%)/ MAT136H1 (70%)/ MAT137Y1 (70%)/ MAT157Y1 (70%)

Completion Requirements:

(8.0 credits including at least 2.0 credits at the 300+ level, 0.5 of which must be at the 400 level)

First Year (2.5 credits):

BIO120H1, BIO130H1, EEB125H1/ CSC108H1/ CSC148H1/ CSC110Y1, (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Higher Years (5.5 credits):

1. 1.5 credits: BIO220H1, BIO230H1/ BIO255H1, BIO260H1/ HMB265H1
2. 1.0 credit in introductory probability and statistics: EEB225H1, GGR270H1, PSY201H1, PSY202H1, STA220H1, STA221H1, STA237H1, STA238H1, STA247H1, STA248H1, STA255H1, STA257H1, STA261H1, STA288H1
3. 0.5 credit in intermediate math: APM236H1, MAT221H1/ MAT223H1, MAT224H1, MAT240H1, MAT237Y1, MAT247H1
4. 1.0 credit from: CSB352H1, EEB319H1, EEB323H1, EEB324H1, EEB362H1, GGR337H1, GGR372H1, GGR373H1, PHY331H1
5. 1.0 credit from: APM346H1, APM446H1, APM461H1, APM462H1, BCH441H1, CSB472H1, CSC311H1, CSC320H1, CSC336H1, CSC343H1, CSC373H1, CSC384H1, CSC401H1, CSC412H1, CSC413H1, CSC420H1, EEB313H1, EEB430H1,

EEB458H1, EEB459H1, EEB460H1, EEB463H1,
EEB498Y1, EEB499Y1, MAT332H1, MAT335H1,
MAT344H1, MAT351Y1, MGY428H1, PHY431H1,
PSY305H1, STA302H1, STA303H1, STA304H1,
STA305H1, STA355H1, STA365H1, STA480H1

6. 0.5 credit at 400 level from: BCB410H1,
BCB420H1, BCH441H1, CSB435H1, CSB472H1,
CSB498Y1, CSB499Y1, EEB430H1, EEB458H1,
EEB459H1, EEB460H1, EEB463H1, EEB498Y1,
EEB499Y1, PHY431H1, PSY474H1, STA480H1

Data Science in the Humanities

Digital Humanities Minor (Arts Program) - ASMIN1337

Digital humanities (DH) is a discipline at the intersections of the humanities with computing. DH studies human culture -- art, literature, history, geography, religion -- through computational tools and methodologies; and, in turn, DH studies the digital through humanist lenses. Digital humanists study social media phenomena or medieval manuscript archives; computationally analyze thousands of newspaper articles to trace economic developments; construct video games to study literary narratives; or resurrect historical cities through digital maps and virtual reality exhibits.

In introductory and advanced DH courses, students learn about the intellectual landscape of digital humanities scholarship. They learn how to build digital stories, exhibits, and maps; how to digitize rare books; how to analyze collections of data; how to construct digital models and 3D-print them; and how to manage major digital projects. By the end of the program, students conduct a major DH research project of their own or participate in the research of an established faculty project. Throughout the program, students gain a critical perspective on digital technologies, learning to consider the ways digital platforms shape, and are shaped by, the currents of wider social and cultural forces.

By providing this critical and technical skillset, the Digital Humanities Minor prepares students for future paths that range from graduate studies in literature, history, library science, education, or computer science, to careers as technical writers, data analysts and visualizers, project managers, or programmers.

Students should note that some courses at the 200, 300, and 400 levels may have additional prerequisites.

Permission to count courses that are not on the list below towards the Minor in Digital Humanities must be received from the Program Coordinator, and will be granted on a case-by-case basis when the student's work demonstrably

and substantially engages Digital Humanities-related content or research methods.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300/400-level)

Students should note that some courses at the 200, 300, and 400-levels may have additional prerequisites.

Permission to count courses towards the Minor in Digital Humanities that are not in the Completion Requirements must be received by the Program Coordinator, and will be granted on a case-by-case basis when the student's work demonstrably and substantially engages Digital Humanities-related content or research methods.

It is not possible to complete this program in one year.

1. Introductory courses: DHU235H1 and DHU236H1

2. Maximum 2.5 credits from any of the following courses, which include DHU courses and cross-listed courses offered by other departments:

a. DHU335H1/ DHU336H1/ DHU337H1/ DHU338H1/ DHU339H1

b. Cross-Listed Courses:

Anthropology: ANT437H1

Book and Media Studies: SMC228H1/ SMC229H1/

SMC255H1/ BMS392H1

Cinema Studies: CIN312Y1

Drama, Theatre, and Performance Studies: DRM244H1/ DRM424H1

Computer Science: CSC104H1/ CSC108H1/ CSC300H1

English: ENG287H1

Geography: GGR271H1/ GGR272H1/ GGR273H1/

GGR349H1/ GGR452H1

History: HIS393H1/ HIS455Y1

History & Philosophy of Science & Technology:

HPS202H1/ HPS203H1

Medieval Studies: MST201H1/ MST202H1/ MST300H1

Music: MUS300H1

Religion: RLG233H1/ RLG307H1/ RLG308H1

Urban Studies: URB235H1/ URB236H1/ URB333H1

Writing and Rhetoric: WRR303H1

3. A minimum of a 0.5 credit that provides a capstone experience, chosen from the list below:

a. DHU435H1, DHU436H1, DHU437H1

b. Other 400-level courses with a significant DH practicum element, such as CDN435Y1 (Active Citizenship), can also be considered for fulfillment of the capstone requirement, if students receive written permission of the Digital Humanities Program Coordinator within the first two weeks of enrollment in the course.

Note: Cross-listed courses are offered by other departments. Registration in these courses may be available only to students who have completed specified prerequisites and/or are enrolled in a program sponsored by the department offering the course. Course enrolment conditions are listed in the Arts and Science timetable. Course descriptions, prerequisites, corequisites and exclusions are listed in the Calendar.

Note:

- Effective Fall 2021, courses associated with Woodsworth College's Digital Humanities program will have the new "DHU" designator.
- Effective Fall 2021, active courses associated with St. Michael's College's Book and Media Studies program will have the new "BMS" designator. In addition, courses associated with Innis College's Urban Studies and Writing and Rhetoric programs will have the new "URB" and "WRR" designators respectively.

Collaborative Programs

Environment & Toxicology Specialist (Science Program) - ASSPE0605

This program is jointly sponsored by the Department of Pharmacology and Toxicology and the School of the Environment. For additional information see "School of the Environment" (www.environment.utoronto.ca) or consult our website: www.pharmtox.utoronto.ca.

The Environment and Toxicology Specialist program is an interdisciplinary program which spans the social, physical and life sciences and integrates study of the effects of chemicals not only on the health and behaviour of human beings but on whole ecosystems as the adverse effects associated with therapeutic and environmental chemicals are discussed. This program emphasizes the application of knowledge of environmental toxicology and risk assessment and prepares students for a variety of job opportunities following its completion. Graduates of the Environment and Toxicology program may pursue careers in scientific research, environmental science, conservation science, governmental agencies, consulting agencies, and within chemical, manufacturing or agriculture industries. Students learn to integrate basic environmental and life science with particular aspects of clinical toxicology and related areas through lectures, tutorials, and laboratory and independent research project experience. The senior independent research project course enables students to gain valuable research experience while working under the supervision of an individual faculty member in either a laboratory-based or a non-laboratory-based setting.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enroll.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO120H1, BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- 1.0 credit from (MAT135H1, MAT136H1)/MAT137Y1/ MAT157Y1/ (PHY131H1, PHY132H1)/(PHY151H1, PHY152H1)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in each course, or a combined grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Arts & Science Internship Program (ASIP)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Environment & Toxicology Specialist in the Summer after Year 2 and completion of PCL201H1 (with a minimum grade of 77%), PSL300H1 and PSL301H1.

Notes:

- The Environment and Toxicology Specialist cannot be combined with the Biomedical Toxicology Major or the Pharmacology Major.
- Students who wish to enroll in the program **after** their second year will be considered on a case-by-case basis. Successful completion of required prerequisite courses is required to enroll in further upper-level program courses.

Completion Requirements:

(14.0 credits, including 4.0 credits at the 300+level, 1.0 credit of which must be at the 400-level).

First Year: BIO120H1, BIO130H1, (CHM135H1, CHM136H1)/ CHM151Y1, and at least 1.0 credit from MAT135H1, MAT136H1, MAT137Y1, MAT157Y1, PHY131H1, PHY132H1, PHY151H1, PHY152H1

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second Year: BCH210H1, BIO230H1/ BIO255H1, ENV221H1, ENV222H1, PCL201H1, PSL300H1, PSL301H1 and CHM247H1 (see NOTE 1)

Third and Fourth Years:

BIO220H1, EEB240H1, JGE321H1, CHM210H1, PCL302H1, PCL381H1, PCL482H1, PCL483H1

One of: ENV341H1/ ENV337H1/ EEB320H1
 One of: STA220H1/ STA221H1/ STA288H1/ EEB225H1
 (see NOTE 2)
 One of: ENV421Y1/ JPM400Y1/ PCL367H1/ PCL474Y1
 (see NOTE 2)

At least 1.0 credit from: CHM310H1, EEB321H1, EEB365H1, EEB428H1, ENV441H1, ENV462H1, JPM300H1, LMP301H1, LMP363H1, PCL298H1, PCL362H1, PCL386H1, PCL477H1, PCL484H1, PCL490H1, PHY231H1 (see NOTE 3)

An Integrative, Inquiry-Based Activity Requirement must be satisfied.

The requirement for an integrative, inquiry-based and/or experiential activity must be met by completing at least one of the following: PCL297H1, PCL298H1, PCL367H1, PCL397Y0, ENV421H1, ENV421Y1, JPM400Y1, PCL474Y1. Students who complete the Arts & Science Internship Program (ASIP) stream or PEY Co-op will also meet this requirement.

Note: January 2022 was the last opportunity for Faculty of Arts & Science students to register for PEY Co-op. Students in Year 3 in the Fall/Winter 2021-2022 were the last group of Faculty of Arts & Science students eligible to

participate in PEY Co-op. Students starting Year 2 in Fall 2021 or later are only eligible to participate in the Arts & Science Internship Program stream.

Notes:

1. PSL300H1 and PSL301H1 require MAT 100-level/ PHY 100-level courses.
2. PCL201H1, PCL302H1, and PCL367H1 are pre-requisites for students intending to take PCL474Y1. Students intending to take PCL474Y1 must obtain permission from the Undergraduate Student Advisor of the School of the Environment 3 months prior to the intended date of enrolment. Students must also consult with the Department of Pharmacology and Toxicology at least 3 months prior to the intended date of enrolment. **Students wishing to take ENV421Y1 are advised to take the course during third year, due to scheduling conflicts with fourth year requirements.**
3. Students taking PCL477H1 must take BCH210H1 prior. **Students taking only PCL367H1 must take 1.5 credits from program electives requirement list of courses to ensure 14.0 program credits. Students may choose to take both PCL367H1 and ENV421Y1/ JPM400Y1/ PCL474Y1 and would then need to take only 0.5 credits from the program electives requirement list of courses to ensure 14.0 program credits.**

Data Science in the Social Sciences

Focus in Data Analytics (Major) - ASFOC1478B

The Focus in Data Analytics (major) ensures that students gain proficiency in applied empirical economics. It provides students with hands-on exposure to the tools empirical economists use to build and analyze datasets - programming languages such as Python, and software programs to manage, statistically analyze, and visualize data such as Excel, GIS, Stata and R. The focus will also direct students to empirical economics courses that apply these tools in a wide variety of contexts.

Enrolment Requirements:

Enrolment in the Economics Major program (ASMAJ1478) is required.

Completion Requirements:

(3.0 credits)

1. 0.5 credit from: CSC108H1, CSC110Y1, CSC148H1
2. ECO225H1/ GGR272H1/ JSC270H1
3. ECO372H1
4. 1.0 credit of 300+ ECO elective courses from: ECO310H1, ECO334H1, ECO339H1, ECO340H1, ECO353H1, ECO354H1, ECO367H1, ECO374H1, ECO375H1, ECO380H1 (or the 400-level courses listed below (#5))
5. 0.5 credit 400-level ECO course from: ECO401H1, ECO403H1, ECO404H1, ECO418H1, ECO439H1, ECO446H1, ECO464H1, ECO466H1, ECO475H1, ECO480H1, ECO481H1, ECO482H1, ECO483H1, ECO499H1

Focus in Data Analytics (Specialist) - ASFOC1478A

Students in the Economics Specialist program who undertake a Focus in Data Analytics will gain advanced ability in applied empirical economics. The Focus (for specialists) provides students with hands-on exposure to the tools empirical economists use to build and analyze datasets - programming languages such as Python, and software programs to manage, statistically analyze, and visualize data such as Excel, GIS, Stata and R. The Specialist Focus will also direct students to required and elective empirical economics courses that apply these tools in a wide variety of contexts.

Enrolment Requirements:

Enrolment in the Economics Specialist program (ASSPE1478) is required.

Completion Requirements:

(5.0 credits)

1. 0.5 credit from: CSC108H1, CSC110Y1, CSC148H1
2. ECO225H1/ GGR272H1/ JSC270H1
3. ECO372H1
4. ECO374H1
5. ECO475H1
6. 2.0 credits of 300+ ECO elective courses from: ECO310H1, ECO334H1, ECO339H1, ECO340H1, ECO353H1, ECO354H1, ECO367H1, ECO380H1 (or the 400-level courses listed below (#7))
7. 0.5 credit 400-level ECO course from: ECO401H1, ECO403H1, ECO404H1, ECO418H1, ECO439H1, ECO446H1, ECO464H1, ECO466H1, ECO480H1, ECO481H1, ECO482H1, ECO483H1, ECO499H1

Focus in Data Science in Business

This is a focus in data science in business that can be taken as part of any of the 3 specialists (Management, Accounting, and Finance & Economics) in the Rotman Commerce program. It requires taking 1.0 credit of required courses in programming and data analytics tools and then allows students to choose 1.5 credits of elective courses applying these tools to various areas in management and economics.

Enrolment Requirements:

Enrolment in one of the following Bachelor of Commerce Specialist programs is required:

- Management Specialist (Focus ASFOC2431G)
- Accounting Specialist (Focus ASFOC2676A)
- Finance & Economics Specialist (Focus ASFOC2038A)

Completion Requirements:

This focus requires the completion of 2.5 credits.

1. 0.5 credit in Programming: CSC108H1/ CSC148H1
2. 0.5 credit in Data Science Tools: RSM338H1/ RSM358H1
3. 1.5 credits from the following courses: ECO225H1, ECO372H1, ECO374H1, ECO375H1, ECO464H1, ECO475H1, GGR274H1, RSM326H1, RSM351H1 (formerly offered as a special topics course under RSM311H1), RSM371H1, RSM384H1, RSM456H1, RSM470H1, RSM483H1 and any data science-themed RSM special topics course and RSM Summer Abroad course as determined by the Director of Rotman Commerce.

Alternative courses may be substituted with the prior approval of the Director, Rotman Commerce. Contact the Rotman Commerce Program office for more information.

Geographic Information Systems Minor (Arts Program) - ASMIN0305

The GIS program covers the on theoretical, technical and applied foundations for geographic information systems. Students learn methods for spatial data production, analysis and presentation using computer cartography, spatial analysis, remote sensing, and geovisualization. Problem solving and project design are emphasized in upper level courses, as students apply techniques to

answer specific geographic questions. The GIS program is structured to provide a stand-alone minor for students in Geography and other disciplines seeking complementary skills in spatial analysis (e.g., field biology, archaeology).

Note: Students combining this program with a Specialist/Major sponsored by the Department of Geography will normally be allowed to count only 1.5 (of the 4.0) credits towards both programs.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year Geography Courses: Any 2 courses (1.0 credit) from JEG100H1, GGR101H1, GGR107H1, GGR112H1, GGR124H1, GGR172H1, GGR196H1, GGR197H1, GGR198H1, GGR199H1. 200/300-level GGR courses may also be used to meet this requirement. Contact the Undergraduate Administrator to update your program.

Methods & Core Courses: All (2.0 credits) of GGR270H1, GGR272H1, GGR273H1, GGR373H1

Applications: Any 2 courses (1.0 credit) from GGR225H1, GGR274H1, GGR315H1/ GGR337H1, GGR372H1, GGR375H1, GGR376H1, GGR377H1, GGR386H1, GGR413H1, GGR414H1/ GGR415H1, GGR462H1, GGR472H1, GGR473H1. Up to 0.5 credit can be used from GGR493Y1, based on suitability of placement for this program, and approval by department. Up to 0.5 credit from GGR491Y1, GGR492H1, GGR497H1, GGR498H1, and GGR499H1 based on suitability of research topic for this program, and approval by department.

Note: At least 1.0 credit must be 300/400-level courses

Directed Minors

Geographic Information Systems Minor (Arts Program) - ASMIN0305

The GIS program covers the on theoretical, technical and applied foundations for geographic information systems. Students learn methods for spatial data production, analysis and presentation using computer cartography, spatial analysis, remote sensing, and geovisualization. Problem solving and project design are emphasized in upper level courses, as students apply techniques to answer specific geographic questions. The GIS program

is structured to provide a stand-alone minor for students in Geography and other disciplines seeking complementary skills in spatial analysis (e.g., field biology, archaeology).

Note: Students combining this program with a Specialist/Major sponsored by the Department of Geography will normally be allowed to count only 1.5 (of the 4.0) credits towards both programs.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year Geography Courses: Any 2 courses (1.0 credit) from JEG100H1, GGR101H1, GGR107H1, GGR112H1, GGR124H1, GGR172H1, GGR196H1, GGR197H1, GGR198H1, GGR199H1. 200/300-level GGR courses may also be used to meet this requirement. Contact the Undergraduate Administrator to update your program.

Methods & Core Courses: All (2.0 credits) of GGR270H1, GGR272H1, GGR273H1, GGR373H1

Applications: Any 2 courses (1.0 credit) from GGR225H1, GGR274H1, GGR315H1/ GGR337H1, GGR372H1, GGR375H1, GGR376H1, GGR377H1, GGR386H1, GGR413H1, GGR414H1/ GGR415H1, GGR462H1, GGR472H1, GGR473H1. Up to 0.5 credit can be used from GGR493Y1, based on suitability of placement for this program, and approval by department. Up to 0.5 credit from GGR491Y1, GGR492H1, GGR497H1, GGR498H1, and GGR499H1 based on suitability of research topic for this program, and approval by department.

Note: At least 1.0 credit must be 300/400-level courses

Data Science in the Life Sciences

Biochemistry Major (Science Program) - ASMAJ1762

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available

spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO120H1 and BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- (MAT135H1 and MAT136H1)/ MAT137Y1/MAT157Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60%, or a grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program. While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 70s; average = mid 70s. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at biochemistry.undergrad@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the Arts & Science Program Toolkit or the departmental website at www.biochemistry.utoronto.ca for more information.

Completion Requirements:

(8.0 credits, including 1.0 credit at the 400-level)

First Year:

1. BIO120H1, BIO130H1
2. (CHM135H1, CHM136H1)/ CHM151Y1
3. (MAT135H1, MAT136H1)/ MAT137Y1/MAT157Y1

Second Year:

1. BCH210H1
2. BIO230H1/ BIO255H1
3. CHM247H1/ CHM249H1

Third Year:

1. BCH311H1
2. BCH370H1
3. CHM217H1/ CHM220H1/ BCH340H1

4. 1.0 credit from CHM217H1*/ CHM220H1*/ BCH340H1* (* if not taken for the requirement immediately above)/ BIO220H1/ one of BIO260H1 or HMB265H1/ JPM300H1.

Note: The department is open to the use of 300-level non-field course(s) in CHM/CSB/EEB/HMB/IMM/LMP/MGY/PCL/PSL to fulfill Requirement 4, but students must seek approval from the department prior to course enrolment.

Fourth Year:

1.0 credit from: BCH422H1, BCH425H1, BCH426H1, BCH428H1, BCH440H1, BCH444H1, BCH445H1, BCH446H1, BCH448H1, BCH449H1, CHM447H1, MGY441H1

Biochemistry Specialist (Science Program) - ASSPE1762

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO120H1 and BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- (MAT135H1 and MAT136H1)/ MAT137Y1/MAT157Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60%, or a grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program. While it is difficult to predict what will constitute "competitive" course marks in a given year, based on previous years the estimate is: course marks = mid 80s; average = mid 80s. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or

later are asked to please contact the department directly at biochemistry.undergrad@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) or the departmental website at www.biochemistry.utoronto.ca for more information.

Completion Requirements:

(14.0 credits, including at least 2.5 credits at the 400-level)

First Year:

1. [BIO120H1](#), [BIO130H1](#)
2. ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#)
3. ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)

First or Second Year:

([PHY131H1](#), [PHY132H1](#))/ ([PHY151H1](#), [PHY152H1](#))
[[PHY131H1](#), [PHY132H1](#) recommended]

Second Year:

1. [BCH242Y1](#)
2. [MGY280H1](#)
3. [BIO230H1](#)/ [BIO255H1](#)
4. [STA220H1](#)/ [STA288H1](#)
5. [CHM247H1](#)/ [CHM249H1](#)
6. [BIO260H1](#)/ [HMB265H1](#) (See NOTE 1)

Third Year:

1. [BCH340H1](#), [BCH377H1](#)
2. [MGY311Y1](#)

Fourth Year:

1. [BCH478H1](#)
2. 2.0 credits including at least 1.0 credit in BCH from: [BCH422H1](#), [BCH425H1](#), [BCH426H1](#), [BCH428H1](#), [BCH440H1](#), [BCH444H1](#), [BCH445H1](#), [BCH446H1](#), [BCH448H1](#), [BCH449H1](#), [BCH450H1](#), [BCH479H1](#), [BCB420H1](#), [CHM447H1](#), [MGY420H1](#), [MGY425H1](#), [MGY428H1](#), [MGY441H1](#), [MGY450H1](#), [MGY470H1](#). Up to 1.0 credit from research project courses ([BCH372Y1](#)/ [BCH374Y1](#)/ [BCH472Y1](#)/ [BCH473Y1](#)) may count towards this requirement (See NOTE 2).
3. Additional courses (to bring the program total to 14.0 credits) from the following list: [BIO220H1](#)/ [CHM217H1](#)/ [CHM220H1](#) (See NOTE 3)/ [CHM223H1](#)/ one of [CSC108H1](#) or [CSC148H1](#)/ [MAT235Y1](#)/ [MAT237Y1](#)/ [STA221H1](#)/ [JPM300H1](#)/ any suitable 300-level course from CHM/ CSB/ EEB/ HMB/ IMM/ LMP/ MGY/ PCL/ PSL (departmental approval required)

NOTES:

1. Alternatively, [BIO260H1](#) may be taken in third year (due to timetable conflicts [BIO260H1](#) may not be taken in 2nd year).
2. Additional BCH research project courses can be taken as part of the 20.0 credits needed for your degree.
3. [CHM220H1](#) is highly recommended for students who are interested in pursuing studies in the physical aspects of biochemistry such as structural biology and molecular biophysics.

Bioinformatics and Computational Biology Specialist (Science Program) - ASSPE1868

The genomic and post-genomic era brings opportunities for new insight into all aspects of biology and medicine, based on the computational analysis of very large datasets in a biological context. The Bioinformatics and Computational Biology Program is an interdepartmental, interdisciplinary Program of Study that balances computer-science and life-science courses towards that goal. As a Specialist Program it is designed to prepare students for graduate studies in the field.

The Program is formally administered by the Department of Cell and Systems Biology and co-sponsored by the Departments of Biochemistry, Computer Science, Ecology and Evolutionary Biology, and Molecular Genetics; all sponsoring Departments have clear trajectories to extend the Program into graduate studies in the respective Department.

Note: this program has deregulated fees, which are incurred after enrolment in the program. Please refer to [Arts & Science Registration Instructions](#) for more information.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- [BIO130H1](#) and ([CSC108H1](#)/ [CSC148H1](#)/ [CSC110Y1](#))
or

- [BIO230H1](#) and [CSC236H1](#)

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 75% in these required courses will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program. While it is difficult to predict what will constitute a "competitive" grade average in a given year, based on previous years the estimate is =mid 80s.

Applications from students lacking a numerical grade in one of the specified prerequisites may be considered on the basis of their entire academic record and the availability of space in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Bioinformatics & Computational Biology Specialist in the Summer after Year 2.

Completion Requirements:

Specialist program:
(12.5 credits)

First or second year:

Foundational courses (5.0 credits total)
([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)
([CSC108H1](#), [CSC148H1](#))/ [CSC110Y1](#)
([CSC111H1](#)/ [CSC165H1](#), [CSC236H1](#))/ [CSC240H1](#) (1)
[CSC263H1](#)/ [CSC265H1](#)
([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#)
[BIO130H1](#)

Upper years:

Program requirements (7.5 credits total)
[STA237H1](#)/ [STA247H1](#)/ [STA255H1](#)/ [STA257H1](#)
[CSC207H1](#)
[CSC209H1](#)
[CSC373H1](#)
[BIO230H1](#)/ [BIO255H1](#)
[BIO260H1](#)/ [HMB265H1](#)
([BCH210H1](#), ([BCH311H1](#)/ [CSB349H1](#)/ [MGY311Y1](#)))/ [BCH242Y1](#)
[BCH441H1](#)/ [MGY441H1](#)/ [CSB472H1](#)
[BCB330Y1](#)
[BCB410H1](#)
[BCB420H1](#)
[BCB430Y1](#)

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\)](#) stream

Notes:

BCB students are allowed to enrol in up to 2.5 CSC credits at the 300/400-level

Course substitutions are possible with written permission of the Program Director. Note that the requirements for a co-sponsoring Department's major can normally be fulfilled with 0.5 to 3.5 additional credits. All Major programs in the co-sponsoring life science departments require [BIO120H1](#), however, it is not formally a part of this Specialist Program's requirements.

(1) The "missing" 0.5 credit of the substitution does not have to be replaced. For details, please refer to the Computer Science Program instructions in this Calendar.

Former BCB students benefitted from taking [CSB352H1](#), Bioinformatic Methods. They also found it to be helpful to take [BCH441H1](#)/ [MGY441H1](#) prior to [BCB410H1](#) due to [BCB410H1](#)'s R programming requirement.

Biomedical Toxicology Major (Science Program) - ASMAJ2573

Biomedical toxicology has emerged as an important science addressing drug safety and the adverse consequences of chemical exposure. The Biomedical Toxicology Major program examines the harmful effects of chemicals on the health and behavior of individuals and society. The safety/toxicity of a wide array of chemicals is examined including pharmaceutical preparations, herbal products, natural toxins, and environmental contaminants, with a focus on their effects on human health. Students learn about basic and clinical toxicology and related areas through lectures, tutorials and class discussions/debates.

This program includes the application of toxicological knowledge and risk assessment and prepares students for a variety of job opportunities following its completion as well as for further study in graduate research or professional programs such as Medicine, Dentistry, and Pharmacy. (Note: Students interested in professional programs should contact the respective faculties to inquire about specific transfer credits.) Many graduates of the Biomedical Toxicology major program pursue careers in scientific research, forensic science, nutrition and food sciences, governmental agencies, consulting agencies, and industrial settings including the pharmaceutical and chemical industries.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 8.0 credits and meet the requirements listed below to enroll. Students interested in this program should initially apply to the general Major (ASMAJ2675) after their first year of study. Following their second year of study, students in ASMAJ2675 must choose to pursue either the Pharmacology Major (ASMAJ2082) or the Biomedical Toxicology Major (ASMAJ2573).

Students who have completed 4.0 to 7.5 credits cannot apply directly to ASMAJ2573 and must first apply to ASMAJ2675, using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1

Students who have completed at least 8.0 credits and who are already enrolled in ASMAJ2675 may enrol in ASMAJ2573 themselves on ACORN.

Students who have completed at least 8.0 credits but who are not already enrolled in ASMAJ2675 must apply to ASMAJ2573 using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- PCL201H1

Variable Minimum Grade or Variable Minimum Grade Average

A minimum grade and minimum grade average in required courses are needed for entry, and this minimum changes each year depending on available spaces and the number of applicants.

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in any of these courses, or a combined grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade and minimum grade average does not guarantee admission to the program.

Applications from students lacking numerical grades in one or more of the specified enrolment requirements, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Notes:

- While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 80s; average = mid 80s.
- Students wishing to enroll in this program will initially apply to a general departmental Major (ASMAJ2675) after their first year. After admission, and prior to the start of their third year of study, students will select the focus for their future studies (Biomedical Toxicology or Pharmacology). First and second year courses are the same for all Major programs within the Department (ASMAJ2675/ASMAJ2082/ASMAJ2573).
- Students cannot combine a Biomedical Toxicology Major program with a Pharmacology Major or Specialist program for their degree.

Completion Requirements:

(8.0 credits)

First Year: BIO120H1; BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1

Second Year: BCH210H1; BIO230H1/ BIO255H1; PCL201H1; CHM247H1/ CHM249H1; (PSL300H1, PSL301H1) (NOTE: PSL201Y1 is not acceptable)

Third Year: PCL302H1; PCL381H1

Third or Fourth Year: 1.0 credit with at least 0.5 credit from PCL courses: JPM300H1/ JPM400Y1/ PCL298H1/ PCL345H1/ PCL362H1/ PCL367H1/ PCL368H1/ PCL386H1/ PCL389H1/ PCL402H1/ PCL475H1/ PCL476H1/ PCL477H1/ PCL484H1/ PCL490H1/ ANA301H1/ ENV441H1/ LMP301H1/ LMP363H1

Fourth Year: PCL482H1, PCL483H1

Notes:

1. Students are not allowed to enroll concurrently in the Major Program in Pharmacology and the Major Program in Toxicology.
2. Students are not allowed to enroll concurrently in the Major Program in Pharmacology and a Specialist Program in Toxicology.
3. Students are not permitted to take PCL472Y1 or PCL474Y1.

Biomedical Toxicology Specialist (Science Program) - ASSPE2573

Biomedical toxicology has emerged as an important science addressing drug safety and the adverse

consequences of chemical exposure. The Biomedical Toxicology Specialist program examines the harmful effects of chemicals on the health and behaviour of individuals and society. The safety/toxicity of a wide array of chemicals is examined including pharmaceutical preparations, herbal products, natural toxins and environmental contaminants, with a focus on their effects on human health. This program emphasizes the application of toxicological knowledge and risk assessment and prepares students for a variety of job opportunities following its completion as well as for further study in graduate research or professional programs such as Medicine, Dentistry, and Pharmacy. (Note: Students interested in professional programs should contact the respective faculties to inquire about specific transfer credits.) Many graduates of the Biomedical Toxicology Specialist program pursue careers in scientific research, forensic science, nutrition and food sciences, governmental agencies, consulting agencies, and industrial settings including the pharmaceutical and chemical industries. Students learn about basic and clinical toxicology and related areas through lectures, tutorials, laboratories, and independent research projects. The senior research project course enables students to gain valuable research experience while working under the supervision of an individual faculty member in either a laboratory-based or a non-laboratory-based setting.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 8.0 credits and meet the requirements listed below to enroll. Students interested in this program should initially apply to the Specialist in Pharmacology & Biomedical Toxicology Program (ASSPE2340) after their first year of study. Students in ASSPE2340 will have the opportunity to move into the Biomedical Toxicology Specialist (ASSPE2573) following their second year of study.

Students who have completed 4.0 to 7.5 credits cannot apply directly to ASSPE2573 and must first apply to ASSPE2340, using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- 1.0 credit from (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1/ (PHY131H1 and PHY132H1)/ (PHY151H1 and PHY152H1)

Students who have completed at least 8.0 credits and who are already enrolled in ASSPE2340 may enrol in ASSPE2573 themselves on ACORN.

Students who have completed at least 8.0 credits but who are not already enrolled in ASSPE2340 must apply to ASSPE2573 using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1

- 1.0 credit from (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1/ (PHY131H1 and PHY132H1)/ (PHY151H1 and PHY152H1)
- PCL201H1

Variable Minimum Grade and Variable Minimum Grade Average

A minimum grade and minimum grade average in required courses are needed for entry, and this minimum changes each year depending on available spaces and the number of applicants.

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in any of these courses, or a combined grade average lower than 75% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade and minimum grade average does not guarantee admission to the program.

Applications from students lacking numerical grades in one or more of the specified enrolment requirements, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Arts & Science Internship Program (ASIP)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Biomedical Toxicology Specialist in the Summer after Year 2 and completion of PCL201H1 (with a minimum grade of 77%), PSL300H1 and PSL301H1.

Notes:

- While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 80s; average = mid 80s.
- **Students wishing to enroll in the Biomedical Toxicology Specialist will initially apply to the Joint Specialist in Pharmacology and**

Biomedical Toxicology (ASSPE2340). After admission, students can then choose to transfer to the Biomedical Toxicology Specialist following second year. First and second year courses are the same for all Specialist programs within the Department (ASSPE2082/ASSPE2340/ASSPE2573).

- Students cannot combine the Biomedical Toxicology Specialist with either departmental Major programs (Biomedical Toxicology or Pharmacology).
- Students wishing to enroll **after** their second year who have taken PCL201H1 will be considered on a case by case basis. Successful completion of pre-requisite courses is required to enroll in upper level program courses. Students may not transfer to the Major program from the Specialist after completion of PCL474Y1 or INT300H1/ INT301H1 in the Arts & Science Internship Program (ASIP).

Completion Requirements:

(14.0 credits)

First Year: BIO120H1, BIO130H1, (CHM135H1, CHM136H1)/ CHM151Y1, and 1.0 credit from any combination of (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1, PHY131H1/ PHY151H1, PHY132H1/ PHY152H1 (see NOTE 1)

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second Year: BCH210H1, BIO230H1/ BIO255H1, BIO260H1/ HMB265H1, CHM247H1/ CHM249H1, STA288H1, PCL201H1, (PSL300H1, PSL301H1) (NOTE: PSL201Y1 is not acceptable)

Third Year: PCL302H1, PCL381H1, at least one 0.5 credit from PCL367H1 or PCL368H1 (see NOTE 2)

Third or Fourth Year: LMP363H1 and 2.5 credits at least 1.5 credits from PCL courses: JPM300H1/ JPM400Y1 (see NOTE 3)/ PCL298H1/ PCL345H1/ PCL362H1 / PCL367H1 or PCL368H1 (see NOTE 2)/ PCL386H1/ PCL389H1/ PCL475H1/ PCL476H1/ PCL477H1/ PCL484H1/ PCL490H1/ ANA301H1/ CHM310H1/ ENV441H1/ LMP301H1

Fourth Year: PCL402H1, (PCL482H1, PCL483H1), PCL474Y1/ JPM400Y1 (see NOTE 3)

An Integrative, Inquiry-Based Activity Requirement must be satisfied.

The requirement for an integrative, inquiry-based and/or experiential activity must be met by completing at least one of the following: PCL297H1, PCL298H1, PCL389H1, PCL397Y0, PCL474Y1, JPM400Y1. Students who

complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

NOTES:

1. Any PHY/MAT courses should be completed during the first year and included for program enrolment.
2. At least 0.5 credit from PCL367H1 or PCL368H1 is required for the program, however if desired the alternative course can be taken as a program elective.
3. Enrolment in any of PCL474Y1 or JPM400Y1 is limited and requires permission from the Department of Pharmacology and Toxicology. Students must receive prior consent from the course coordinator according to Departmental guidelines before the Department will register them in the course. Students can take either course as their required independent project, or may take JPM400Y1 as an additional elective. It is the student's responsibility to make all necessary preparations before the session starts (see course description).
4. Students wishing to apply their Arts & Science Internship Program (ASIP) towards the requirement to complete PCL474Y1/ JPM400Y1 should reach out to undergrad.pharmtox@utoronto.ca.

Cell & Molecular Biology Specialist (Science Program) - ASSPE1003

Students learn how genes and proteins organize cells for cellular activities, multicellular development, and cellular interactions with the environment. Students also learn how cell and molecular biology research is conducted, and receive training in advanced techniques of the field. Cell and molecular biology research is one the most demanding fields in science. Students gain an understanding of the field, and leave the program equipped to tackle fundamental scientific questions.

After foundational courses in first and second year, students participate in advanced lecture, seminar and laboratory courses, and are encouraged to apply for research project courses in the laboratories of the Department. Course offerings include gene expression, cell biology, developmental biology, plant development, plant-microbe interactions, plant signaling, neurogenesis, tissue morphogenesis, stem cell biology, genomics and proteomics.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses

The following courses are required:

- BIO120H1, BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- JMB170Y1/(MAT135H1 and MAT136H1)/
MAT137Y1/ MAT157Y1

Variable Minimum Grade

A minimum grade in some courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO130H1 or BIO230H1/ BIO255H1

To ensure that students admitted to the program will be prepared, applicants with a final grade lower than 70% in BIO130H1 or BIO230H1/ BIO255H1 will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Cell & Molecular Biology Specialist in the Summer after Year 2.

Completion Requirements:

(12.5 credits, including at least 1.0 credit at the 400-level)

First Year:

BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/
CHM151Y1; JMB170Y1/(MAT135H1, MAT136H1)/
MAT137Y1/ MAT157Y1.

Higher Years:

1. (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)
2. BIO220H1, BIO230H1/ BIO255H1, BIO270H1,
BIO271H1, BIO260H1/ HMB265H1; BCH210H1
3. CSB330H1/ CSB350H1/ CSB352H1, CSB349H1
4. 1.0 credit from: CJH332H1, CSB327H1, CSB328H1,
CSB329H1, CSB331H1, CSB340H1, CSB353H1
5. 1.0 credit from: BCH422H1, BCH426H1, BCH444H1,
BCH445H1, CSB427H1, CSB428H1, CSB429H1,
CSB430H1, CSB431H1, CSB435H1, CSB450H1,
CSB451H1, CSB452H1, CSB454H1, CSB457H1,

CSB458H1, CSB459H1, CSB460H1, CSB471H1,
CSB472H1, CSB473H1, CSB474H1, CSB475H1,
CSB483H1

6. 2.5 credits from: BCH422H1, BCH426H1, BCH440H1,
BCH444H1, BCH445H1, CJH332H1, CSB299Y1,
CSB327H1, CSB328H1, CSB329H1, CSB330H1,
CSB331H1, CSB340H1, CSB350H1, CSB351Y1,
CSB352H1, CSB353H1, CSB360H1, CSB397Y0,
CSB399Y1, CSB427H1, CSB428H1, CSB429H1,
CSB430H1, CSB431H1, CSB435H1, CSB447H1,
CSB450H1, CSB451H1, CSB452H1, CSB453H1,
CSB454H1, CSB457H1, CSB458H1, CSB459H1,
CSB460H1, CSB471H1, CSB472H1, CSB473H1,
CSB474H1, CSB475H1, CSB483H1, CSB490H1,
CSB491H1, CSB492H1, CSB497H1, CSB498Y1,
CSB499Y1, HMB496Y1/ HMB499Y1, MGY441H1,
MGY480Y1.

NOTE: No more than 0.5 credit in BCH can be used towards requirements 5. and 6.

The Cell & Molecular Biology Specialist Program has the additional option of a Disciplinary Focus.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Cell & Molecular Biology Specialist: Focus in Molecular Networks of the Cell - ASSPE1003A

Starting in 2nd year, this focus organizes a restricted number of highly motivated Cell and Molecular Biology Specialist students with an interest in Molecular Networks of the Cell. Focus students are required to complete a subset of related program courses and to participate in a learning community for the focus.

Enrolment Requirements:

Once you have been approved for and have enrolled in the Cell and Molecular Biology Specialist program, you have the option to apply for entry into a focus. The focuses have a limited enrolment and can only accommodate a restricted number of students with a particular interest in the topic of the focus. **Students can only apply for one focus.** Admission will be determined with a minimum grade of 80% in BIO130H1. If the student does not achieve 80% in BIO130H1, admission can be determined with a minimum grade of 80% in BIO230H1, BIO255H1 or CSB349H1. On the application form, students must include a 300-word statement of interest regarding the topic of the focus. Statement submission instructions are in the Undergraduate program section of the CSB website, <http://csb.utoronto.ca>. Achieving these

requirements does not necessarily guarantee admission to the focus in any given year.

Students in a focus complete the requirements of First Year, the requirements 1.-3. of Higher Years, as well as requirements 4.-7 specific to each focus.

Each year students are enrolled in a focus, they must also be an active participant in the faculty-led learning community for their focus (requirement 7.). The learning community appears as a non-credit course recognized on the co-curricular record. Students who fail to contribute to the faculty-led learning community will be removed from the focus.

Completion Requirements:

This Focus is part of the Cell and Molecular Biology Specialist and begins with the requirements of First Year and of lines 1-3 of Higher Years of the Cell and Molecular Biology Specialist Program.

4. 1.0 credit from: CJH332H1, CSB327H1, CSB331H1, CSB353H1
5. 1.0 credit from: CSB427H1, CSB428H1, CSB429H1, CSB435H1, CSB451H1, CSB454H1, CSB457H1, CSB458H1, CSB459H1, CSB460H1, CSB475H1
6. 2.5 credits from: BCH422H1, BCH426H1, BCH440H1, BCH444H1, BCH445H1, CJH332H1, CSB299Y1, CSB327H1, CSB328H1, CSB329H1, CSB330H1, CSB331H1, CSB340H1, CSB350H1, CSB351Y1, CSB352H1, CSB353H1, CSB397Y0, CSB399Y1, CSB427H1, CSB428H1, CSB429H1, CSB430H1, CSB431H1, CSB435H1, CSB447H1, CSB450H1, CSB451H1, CSB452H1, CSB454H1, CSB457H1, CSB458H1, CSB459H1, CSB460H1, CSB472H1, CSB473H1, CSB474H1, CSB475H1, CSB483H1, CSB490H1, CSB491H1, CSB492H1, CSB497H1, CSB498Y1, CSB499Y1, MGY441H1. No more than 0.5 credit in BCH can be used towards this requirement.
7. Molecular Network Learning Community (each year of focus enrolment)

Cell & Molecular Biology Specialist: Focus in Plant Genomics and Biotechnology - ASSPE1003B

Starting in 2nd year, this focus organizes a restricted number of highly motivated Cell and Molecular Biology Specialist students with an interest in Plant Genomics and Biotechnology. Focus students are required to complete a subset of related program courses and to participate in a learning community for the focus.

Enrolment Requirements:

Once you have been approved for and have enrolled in the Cell and Molecular Biology Specialist program, you have the option to apply for entry into a focus. The focuses have a limited enrolment and can only accommodate a restricted number of students with a particular interest in the topic of the focus. **Students can only apply for one focus.** Admission will be determined with a minimum grade of 80% in BIO130H1. If the student does not achieve 80% in BIO130H1, admission can be determined with a minimum grade of 80% in BIO230H1, BIO255H1 or CSB349H1. On the application form, students must include a 300-word statement of interest regarding the topic of the focus. Statement submission instructions are in the Undergraduate program section of the CSB website, <http://csb.utoronto.ca>. Achieving these requirements does not necessarily guarantee admission to the focus in any given year.

Students in a focus complete the requirements of First Year, the requirements 1.-3. of Higher Years, as well as requirements 4.-7 specific to each focus.

Each year students are enrolled in a focus, they must also be an active participant in the faculty-led learning community for their focus (requirement 7.). The learning community appears as a non-credit course recognized on the co-curricular record. Students who fail to contribute to the faculty-led learning community will be removed from the focus.

Completion Requirements:

This Focus is part of the Cell and Molecular Biology Specialist and begins with the requirements of First Year and of lines 1-3 of Higher Years of the Cell and Molecular Biology Specialist Program.

4. 1.0 credit from: CSB340H1, CSB350H1/ CSB352H1, CSB353H1
5. 1.0 credit from: CSB435H1, CSB450H1, CSB451H1, CSB452H1, CSB454H1, CSB459H1, CSB460H1, CSB471H1, CSB472H1, CSB473H1, CSB474H1, CSB475H1
6. 2.5 credits from: BCH422H1, BCH426H1, BCH440H1, BCH444H1, BCH445H1, CSB299Y1, CSB328H1, CSB329H1, CSB330H1, CSB331H1, CSB340H1, CSB350H1, CSB351Y1, CSB352H1, CSB353H1, CSB397Y0, CSB399Y1, CSB428H1, CSB431H1, CSB435H1, CSB450H1, CSB451H1, CSB452H1, CSB454H1, CSB458H1, CSB459H1, CSB460H1, CSB471H1, CSB472H1, CSB473H1, CSB474H1, CSB475H1, CSB483H1, CSB490H1, CSB491H1, CSB492H1, CSB497H1, CSB498Y1, CSB499Y1, MGY441H1. No more than 0.5 credit in BCH can be used towards this requirement.
7. Plant Biotech Learning Community (each year of focus enrolment)

Cell & Molecular Biology Specialist: Focus in Stem Cells and Developmental Biology - ASSPE1003C

Starting in 2nd year, this focus organizes a restricted number of highly motivated Cell and Molecular Biology Specialist students with an interest in Stem Cells and Developmental Biology. Focus students are required to complete a subset of related program courses and to participate in a learning community for the focus.

Enrolment Requirements:

Once you have been approved for and have enrolled in the Cell and Molecular Biology Specialist program, you have the option to apply for entry into a focus. The focuses have a limited enrolment and can only accommodate a restricted number of students with a particular interest in the topic of the focus. **Students can only apply for one focus.** Admission will be determined with a minimum grade of 80% in BIO130H1. If the student does not achieve 80% in BIO130H1, admission can be determined with a minimum grade of 80% in BIO230H1, BIO255H1 or CSB349H1. On the application form, students must include a 300-word statement of interest regarding the topic of the focus. Statement submission instructions are in the Undergraduate program section of the CSB website, <http://csb.utoronto.ca>. Achieving these requirements does not necessarily guarantee admission to the focus in any given year.

Students in a focus complete the requirements of First Year, the requirements 1-3 of Higher Years, as well as requirements 4-7 specific to each focus.

Each year students are enrolled in a focus, they must also be an active participant in the faculty-led learning community for their focus (requirement 7). The learning community appears as a non-credit course recognized on the co-curricular record. Students who fail to contribute to the faculty-led learning community will be removed from the focus.

Completion Requirements:

This Focus is part of the Cell and Molecular Biology Specialist and begins with the requirements of First Year and of lines 1-3 of Higher Years of the Cell and Molecular Biology Specialist Program.

4. 1.0 credit from: CSB328H1, CSB329H1, CSB340H1
5. 1.0 credit from: CSB427H1, CSB429H1, CSB430H1, CSB431H1, CSB483H1
6. 2.5 credits from: BCH422H1, BCH426H1, BCH440H1, BCH441H1, BCH444H1, BCH445H1, CSB299Y1, CSB327H1, CSB328H1, CSB329H1, CSB330H1,

CSB331H1, CSB340H1, CSB350H1, CSB352H1, CSB397Y0, CSB399Y1, CSB427H1, CSB428H1, CSB429H1, CSB430H1, CSB431H1, CSB435H1, CSB450H1, CSB453H1, CSB458H1, CSB460H1, CSB472H1, CSB473H1, CSB474H1, CSB483H1, CSB490H1, CSB491H1, CSB492H1, CSB497H1, CSB498Y1, CSB499Y1. No more than one 0.5 credit in BCH can be used towards this requirement.

7. Multicellularity Learning Community (each year of focus enrolment)

Ecology and Evolutionary Biology Specialist (Science Program) - ASSPE1006

The **Ecology & Evolutionary Biology Specialist** program (12.0 credits) provides an in-depth understanding of ecological and evolutionary patterns and processes, as well as the diversity of life forms (microbes, fungi, plants, animals). Concepts are taught using a broad array of approaches, including molecular studies, laboratory experiments, computer and mathematical modeling, and field studies. An integral part of the experience is to conduct independent research projects in the laboratory and/or field. There is a strong emphasis within the program on hands-on laboratory and fieldwork that complement the conceptual framework developed in lectures. Students in this program have the opportunity to concentrate in ecology, evolutionary biology, or behaviour.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(12.0 credits including at least 4.0 credits at the 300+ level, 1.0 of which must be at the 400-level)

First Year (3.0 credits): BIO120H1; BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1; (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

1. 2.0 credits: BIO220H1 (ecology and evolutionary biology); BIO230H1/ BIO255H1 (molecular and cell biology); BIO260H1/ HMB265H1 (genetics); BIO251H1/ BIO270H1/ PSL300H1/ EEB240H1 (plant or animal form and function/environmental biology).

2. 0.5 credit in computational science from: EEB125H1/ CSC108H1/ CSC148H1/ CSC110Y1, and 0.5 credit in statistics from: EEB225H1/ STA220H1/ STA257H1/ STA288H1/ GGR270H1/ PSY201H1

3. 0.5 credit in core evolution from: EEB318H1, EEB323H1, EEB362H1

4. 0.5 credit in core ecology from: [EEB319H1](#), [EEB320H1](#), [EEB321H1](#), [EEB328H1](#)

5. 0.5 credit in organismal biology from: [EEB263H1](#), [EEB266H1](#), [EEB267H1](#), [EEB268H1](#), [EEB331H1](#), [EEB340H1](#), [EEB380H1](#), [EEB382H1](#), [EEB384H1](#), [EEB386H1](#), [EEB388H1](#)

6. 1.0 credit at 300+ level, from: [EEB313H1](#), [EEB318H1](#), [EEB319H1](#), [EEB320H1](#), [EEB321H1](#), [EEB322H1](#), [EEB323H1](#), [EEB324H1](#), [EEB325H1](#), [EEB328H1](#), [EEB331H1](#), [EEB340H1](#), [EEB356H1](#), [EEB362H1](#), [EEB365H1](#), [EEB380H1](#), [EEB382H1](#), [EEB384H1](#), [EEB386H1](#), [EEB388H1](#), [EEB390H1](#), [EEB398H0](#), [EEB399Y0](#), [EEB428H1](#), [EEB430H1](#), [EEB433H1](#), [EEB434H1](#), [EEB440H1](#), [EEB441H1](#), [EEB455H1](#), [EEB458H1](#), [EEB459H1](#), [EEB460H1](#), [EEB463H1](#), [EEB465H1](#), [EEB466H1](#), [EEB491H1](#), [EEB495H1](#), [EHJ352H1](#), [ENV432H1](#), [ENV395Y1](#)

Sub-total = 8.5 credits

7. 1.0 to 1.5 credits in at least two of the three following categories: (1) one field course (0.5 credit) from [EEB403H0](#), [EEB403H1](#), [EEB405H0](#), [EEB405H1](#), [EEB406H0](#), [EEB406H1](#), [EEB410H0](#), [EEB410H1](#); (2) one seminar (0.5 credit) from [EEB491H1](#), [EEB495H1](#); and/or (3) one independent research course (0.5 credit) from [EEB497H1](#)/ (1.0 credit) from [EEB498Y1](#)

Sub-total = 9.5 or 10.0 credits (depending on options chosen in #7)

8. Select the remaining credits for a total of 12.0 credits (at least 1.0 must be 300+ series if 1.0 credit is completed in #7 above) from: [BIO251H1](#), [BIO270H1](#)/ [PSL300H1](#), [BIO271H1](#)/ [PSL301H1](#); all EEB courses (excluding [EEB196H1](#), [EEB197H1](#), [EEB198H1](#), [EEB199H1](#), [EEB202H1](#), [EEB208H1](#), [EEB214H1](#), [EEB215H1](#)); [EHJ352H1](#), [ENV432H1](#), [JHE353H1](#), [JHE355H1](#); and no more than 1.0 credit from the following (note that some courses may require prerequisites that are not listed within this program): [ANT336H1](#), [ANT333Y1](#), [ANT335Y1](#), [ANT338H1](#), [ANT430H1](#), [ANT436H1](#), [CSB328H1](#), [CSB340H1](#), [CSB349H1](#), [CSB350H1](#), [CSB352H1](#), [CSB353H1](#), [CSB430H1](#), [CSB431H1](#), [CSB452H1](#), [CSB458H1](#), [CSB472H1](#), [CSB474H1](#), [ENV346H1](#), [FOR200H1](#), [FOR201H1](#), [FOR301H1](#), [FOR306H1](#), [FOR307H1](#), [FOR413H1](#), [FOR416H1](#), [FOR417H1](#), [FOR418H1](#), [GGR201H1](#), [GGR203H1](#), [GGR205H1](#), [GGR206H1](#), [GGR272H1](#), [GGR273H1](#), [GGR305H1](#), [GGR307H1](#), [GGR308H1](#), [MAT221H1](#), [MGY340H1](#), [PSY100H1](#), [PSY260H1](#), [PSY270H1](#), [PSY280H1](#), [PSY290H1](#), [PSY305H1](#), [PSY390H1](#), [PSY397H1](#), [PSY474H1](#), [PSY492H1](#), [PSY497H1](#) (note that many PSY courses have limited enrolment)

Total = 12.0 credits

NOTE: Students may wish to concentrate in ecology, evolutionary biology, or behaviour. Recommended EEB, EHJ and JHE courses for these concentrations are as follows:

Ecology: [EEB255H1](#), [EEB319H1](#), [EEB320H1](#), [EEB321H1](#), [EEB328H1](#), [EEB365H1](#), [EEB428H1](#), [EEB433H1](#), [EEB434H1](#), [EEB440H1](#), [EEB465H1](#), [EEB495H1](#); [ENV432H1](#)

Evolutionary Biology: [EEB323H1](#), [EEB324H1](#), [EEB325H1](#), [EEB362H1](#), [EEB390H1](#), [EEB440H1](#), [EEB441H1](#), [EEB459H1](#), [EEB460H1](#); [EHJ352H1](#); [JHE353H1](#), [JHE355H1](#)

Behaviour: [EEB322H1](#), [EEB455H1](#)

Environment & Toxicology Specialist (Science Program) - ASSPE0605

This program is jointly sponsored by the Department of Pharmacology and Toxicology and the School of the Environment. For additional information see "School of the Environment" (www.environment.utoronto.ca) or consult our website: www.pharmtox.utoronto.ca.

The Environment and Toxicology Specialist program is an interdisciplinary program which spans the social, physical and life sciences and integrates study of the effects of chemicals not only on the health and behaviour of human beings but on whole ecosystems as the adverse effects associated with therapeutic and environmental chemicals are discussed. This program emphasizes the application of knowledge of environmental toxicology and risk assessment and prepares students for a variety of job opportunities following its completion. Graduates of the Environment and Toxicology program may pursue careers in scientific research, environmental science, conservation science, governmental agencies, consulting agencies, and within chemical, manufacturing or agriculture industries. Students learn to integrate basic environmental and life science with particular aspects of clinical toxicology and related areas through lectures, tutorials, and laboratory and independent research project experience. The senior independent research project course enables students to gain valuable research experience while working under the supervision of an individual faculty member in either a laboratory-based or a non-laboratory-based setting.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enroll.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending

on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO120H1, BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- 1.0 credit from (MAT135H1, MAT136H1)/
MAT137Y1/ MAT157Y1/ (PHY131H1,
PHY132H1)/(PHY151H1, PHY152H1)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in each course, or a combined grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Arts & Science Internship Program (ASIP)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Environment & Toxicology Specialist in the Summer after Year 2 and completion of PCL201H1 (with a minimum grade of 77%), PSL300H1 and PSL301H1.

Notes:

- The Environment and Toxicology Specialist cannot be combined with the Biomedical Toxicology Major or the Pharmacology Major.
- Students who wish to enroll in the program **after** their second year will be considered on a case-by-case basis. Successful completion of required

prerequisite courses is required to enroll in further upper-level program courses.

Completion Requirements:

(14.0 credits, including 4.0 credits at the 300+level, 1.0 credit of which must be at the 400-level).

First Year: BIO120H1, BIO130H1, (CHM135H1, CHM136H1)/ CHM151Y1, and at least 1.0 credit from MAT135H1, MAT136H1, MAT137Y1, MAT157Y1, PHY131H1, PHY132H1, PHY151H1, PHY152H1

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second Year: BCH210H1, BIO230H1/ BIO255H1, ENV221H1, ENV222H1, PCL201H1, PSL300H1, PSL301H1 and CHM247H1 (see NOTE 1)

Third and Fourth Years:

BIO220H1, EEB240H1, JGE321H1, CHM210H1, PCL302H1, PCL381H1, PCL482H1, PCL483H1

One of: ENV341H1/ ENV337H1/ EEB320H1

One of: STA220H1/ STA221H1/ STA288H1/ EEB225H1 (see NOTE 2)

One of: ENV421Y1/ JPM400Y1/ PCL367H1/ PCL474Y1 (see NOTE 2)

At least 1.0 credit from: CHM310H1, EEB321H1, EEB365H1, EEB428H1, ENV441H1, ENV462H1, JPM300H1, LMP301H1, LMP363H1, PCL298H1, PCL362H1, PCL386H1, PCL477H1, PCL484H1, PCL490H1, PHY231H1 (see NOTE 3)

An Integrative, Inquiry-Based Activity Requirement must be satisfied.

The requirement for an integrative, inquiry-based and/or experiential activity must be met by completing at least one of the following: PCL297H1, PCL298H1, PCL367H1, PCL397Y0, ENV421H1, ENV421Y1, JPM400Y1, PCL474Y1. Students who complete the Arts & Science Internship Program (ASIP) stream or PEY Co-op will also meet this requirement.

Note: January 2022 was the last opportunity for Faculty of Arts & Science students to register for PEY Co-op. Students in Year 3 in the Fall/Winter 2021-2022 were the last group of Faculty of Arts & Science students eligible to participate in PEY Co-op. Students starting Year 2 in Fall 2021 or later are only eligible to participate in the [Arts & Science Internship Program](#) stream.

Notes:

1. PSL300H1 and PSL301H1 require MAT 100-level/ PHY 100-level courses.

2. PCL201H1, PCL302H1, and PCL367H1 are pre-requisites for students intending to take PCL474Y1. Students intending to take PCL474Y1 must obtain permission from the Undergraduate Student Advisor of the School of the Environment 3 months prior to the intended date of enrolment. Students must also consult with the Department of Pharmacology and Toxicology at least 3 months prior to the intended date of enrolment. **Students wishing to take ENV421Y1 are advised to take the course during third year, due to scheduling conflicts with fourth year requirements.**
3. Students taking PCL477H1 must take BCH210H1 prior. **Students taking only PCL367H1 must take 1.5 credits from program electives requirement list of courses to ensure 14.0 program credits. Students may choose to take both PCL367H1 and ENV421Y1/ JPM400Y1/ PCL474Y1 and would then need to take only 0.5 credits from the program electives requirement list of courses to ensure 14.0 program credits.**

Genome Biology Major (Science Program) - ASMAJ2655

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Genome Biology Major in the Summer after Year 2.

Completion Requirements:

This program is a joint program of the departments of Cell & Systems Biology, Ecology & Evolutionary Biology, and Molecular Genetics. It is administered through the Department of Cell & Systems Biology.

(8.0 credits)

First year: BIO120H1, BIO130H1; (CHM135H1, CHM136H1/ CHM151Y1; (MAT135H1, MAT136H1/ MAT137Y1/ MAT157Y1

Higher years:

1. BIO220H1, BIO230H1/ BIO255H1; BIO260H1/ HMB265H1; EEB225H1/ STA220H1
2. Genomics fundamentals: BCH311H1/ CSB349H1/ MGY311Y1, CSB352H1; EEB323H1
3. 0.5 credit laboratory course from: CSB472H1, CSB474H1; EEB460H1
4. 1.0 credit genomics elective from: CSB330H1, CSB350H1, CSB397Y0, CSB427H1, CSB435H1, CSB450H1, CSB457H1, CSB458H1, CSB471H1, CSB473H1, CSB490H1, CSB491H1, CSB497H1/ CSB498Y1/ CSB499Y1; EEB362H1, EEB455H1, EEB458H1, EEB459H1, EEB462H1, EEB463H1, EEB397Y1/ EEB497H1/ EEB498Y1/ EEB499Y1; EHJ352H1; MGY350H1, MGY360H1, MGY428H1, MGY470H1, MGY480Y1

NOTE: Students taking CSB397Y0, CSB490H1, CSB491H1, CSB497H1/ CSB498Y1/ CSB499Y1, EEB397Y1/ EEB497H1/ EEB498Y1/ EEB499Y1 or MGY480Y1 are encouraged to conduct a genomics-related research project.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Immunology Major (Science Program) - ASMAJ1002

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade and Variable Minimum Grade Average

Minimum grades combined with a minimum grade average in required courses or their equivalents are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO120H1 and BIO130H1
- CHM135H1 and CHM136H1, or CHM151Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60% in each course, or a final grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining the minimum final grades and grade average does not guarantee admission to the program. While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 70s; average = mid 70s. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at admissions.immunology@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment. Additional information is also available on the Immunology website at www.immunology.utoronto.ca.

Completion Requirements:

(8.0 credits, including 1.0 credit at the 400-level)

First Year:

BIO120H1; BIO130H1; (CHM135H1, CHM136H1)/
CHM151Y1

Second Year:

1. BCH210H1; BIO230H1; IMM250H1; BIO260H1/
HMB265H1
2. 0.5 credit from the following list: BIO220H1/ STA288H1/
TRN225Y1/ TRN236H1/ CHM247H1/ CHM249H1

Third Year:

IMM340H1; IMM350H1; CSB349H1/ BCH311H1; 1.0
credit from the following list: BCH370H1/ MGY377H1/
MGY378H1/ PHL281H1

Fourth Year:

1.0 credit from the following list: IMM428H1/ IMM429H1/
IMM430H1/ IMM431H1/ IMM432H1/ IMM435H1/
MIJ485H1

Notes:

1. Students considering graduate school are encouraged to add the additional non-compulsory IMM450Y1 research course, if space permits.
2. MIJ485H1 requires MGY377H1 & MGY378H1 as pre-requisites.
3. IMM435H1 is capped at 40 students. Priority will be given to Immunology Specialist students, followed by Immunology Major students.

Immunology Specialist (Science Program) - ASSPE1002

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade and Variable Minimum Grade Average

Minimum grades combined with a minimum grade average in required courses or their equivalents are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO120H1 and BIO130H1
- CHM135H1 and CHM136H1, or CHM151Y1
- MAT135H1 and MAT136H1, or MAT137Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in each course, or a final grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining the minimum final grades and grade average does not guarantee admission to the program. While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 70s; average = mid 70s. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at admissions.immunology@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment. Additional information is also available on the Immunology website at www.immunology.utoronto.ca.

Note: The Immunology Specialist cannot be combined with the Biochemistry Major or the Molecular Genetics and Microbiology Major.

Completion Requirements:

(13.5 credits)

First Year:

BIO120H1; BIO130H1; (CHM135H1, CHM136H1)/
CHM151Y1; (MAT135H1, MAT136H1)/ MAT137Y1

First Year or upper years:

([PHY131H1](#), [PHY132H1](#)) / ([PHY151H1](#), [PHY152H1](#))
(Note 1)

Second Year:

1. [BCH242Y1](#); [BIO230H1](#); [BIO260H1](#)/ [HMB265H1](#);
[IMM250H1](#); [STA288H1](#)

2. One course from the following list: [BIO220H1](#)/
[TRN225Y1](#)/ [TRN236H1](#)/ [CHM220H1](#)/ [CHM247H1](#)/
[CHM249H1](#)

Third Year:

1. [BCH377H1](#); [IMM341H1](#); [IMM351H1](#); [MGY311Y1](#);
[IMM360H1](#)

2. [MGY377H1](#)/ [MGY378H1](#)

Fourth Year:

1. [IMM435H1](#)

2. 1.0 credit from the following list: [IMM428H1](#)/
[IMM429H1](#)/ [IMM430H1](#)/ [IMM431H1](#)/ [IMM432H1](#)/
[MIJ485H1](#)

3. [IMM450Y1](#) or 1.0 credit at the 400-level in ANA, BCH, IMM, LMP, MGY, CSB.

Notes:

1. ([PHY131H1](#), [PHY132H1](#)) / ([PHY151H1](#), [PHY152H1](#)) may be taken in the first year or subsequent years and are not required for entrance into the specialist program.

2. [IMM435H1](#) is capped at 40 students. Priority will be given to Immunology Specialist students, followed by Immunology Major students.

3. Students considering graduate school are encouraged to take [IMM385Y1](#).

Molecular Genetics and Microbiology Major (Science Program) - ASMAJ1387

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade and Variable Minimum Grade Average

Minimum grades combined with a minimum grade average in required courses or their equivalents are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses must be completed:

- [BIO120H1](#), [BIO130H1](#)
- ([CHM135H1](#) and [CHM136H1](#)) / [CHM151Y1](#)
- ([MAT135H1](#) and [MAT136H1](#)) / [MAT137Y1](#) / [MAT157Y1](#)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60% in each course, or a grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining the minimum final grades and grade average does not guarantee admission to the program. While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 70s; average = mid 70s. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at studentservices.mogen@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment. Additional information is also available by contacting the Undergraduate Coordinator.

Completion Requirements:

(8.0 credits)

First Year:

[BIO120H1](#), [BIO130H1](#); ([CHM135H1](#), [CHM136H1](#)) / [CHM151Y1](#); ([MAT135H1](#), [MAT136H1](#)) / [MAT137Y1](#)

Second Year:

[BCH210H1](#); [BIO230H1](#)/ [BIO255H1](#), [BIO260H1](#)/
[HMB265H1](#), [MGY200H1](#)

Third and Fourth Years:

[BCH311H1](#)/ [CSB349H1](#)/ [MGY311Y1](#); 2.5 credits from [MGY314H1](#), [MGY315H1](#), [MGY340H1](#), [MGY350H1](#), [MGY360H1](#), [MGY377H1](#), [MGY378H1](#), [MGY379Y1](#)/ [MGY380H1](#), [MGY381H1](#), [MGY420H1](#), [MGY425H1](#), [MGY428H1](#), [MGY434H1](#), [MGY440H1](#), [MGY460H1](#), [MGY470H1](#), [MIJ485H1](#), [BCH428H1](#) (at least 0.5 credit must be a laboratory course and at least 0.5 credit must be a 400-level course, 0.5 credit additional are given if taking [MGY311Y1](#) in lieu of [BCH311H1](#)/ [CSB349H1](#))

Molecular Genetics and Microbiology Specialist (Science Program) - ASSPE1387

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade and Variable Minimum Grade Average

Minimum grades combined with a minimum grade average in required courses or their equivalents are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO120H1, BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- (MAT135H1 and MAT136H1)/ MAT137Y1/
MAT157Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 75% in each course, or a grade average lower than 80% in these required courses will not be considered for admission. Please note that obtaining the minimum final grades and grade average does not guarantee admission to the program. While it is difficult to predict what will constitute "competitive" course marks in a given year, based on previous years the estimate is: course marks = mid 80s; average = mid 80s.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at studentservices.mogen@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment. Additional information is also available by contacting the Undergraduate Program Coordinator (studentservices.mogen@utoronto.ca).

Completion Requirements:

(14.0 credits)

First Year:

BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/
CHM151Y1; (MAT135H1, MAT136H1)/ MAT137Y1

First or Second Year:

(PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Second Year:

BCH242Y1; BIO230H1/ BIO255H1, HMB265H1;
MGY280H1, CHM247H1, STA220H1/ STA288H1

Third Year:

Genetics Stream:

1. MGY340H1, MGY350H1, MGY311Y1, MGY314H1,
MGY315H1
2. 0.5 credit from BCH340H1, BCH377H1; MGY360H1,
MGY377H1, MGY378H1

Microbiology Stream

1. IMM341H1, IMM351H1; MGY311Y1, MGY377H1,
MGY378H1, MGY380H1, MGY381H1

Fourth Year:

Genetics Stream:

1. MGY420H1
plus 2.5 credits from Genetics Lists 1 and 2, distributed as follows:
2. At least 1.5 credits must be taken from list 1:
MGY425H1, MGY428H1, MGY460H1, MGY470H1
3. Up to 1.0 credit may be taken from list 2: MGY440H1,
MGY480Y1/ one or both of (MGY481H1 and
MGY482H1), BCH428H1, BCH440H1, BCH441H1/
CSB472H1, BCH447H1, BCH448H1, EEB460H1

Microbiology Stream:

- 2.5 credits from Microbiology Lists 1 and 2, distributed as follows:
1. At least 1.5 credits must be taken from list 1:
BCH449H1; IMM428H1, IMM430H1, IMM435H1;
LMP402H1, LMP403H1, LMP436H1; MGY428H1,
MGY440H1, MIJ485H1; NFS485H1
2. Up to 1.0 credit may be taken from list 2: MGY360H1,
MGY420H1, MGY425H1, MGY470H1, MGY480Y1/ one
or both of (MGY481H1 and MGY482H1), BCH350H1,
BCH428H1, MGY441H1/ BCH441H1/ CSB472H1,
BCH445H1

Molecular Genetics And Microbiology Specialist: Genetics Stream (Science Program) - ASSPE1388

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enroll.

Variable Minimum Grade and Variable Minimum Grade Average

Minimum grades combined with a minimum grade average in required courses or their equivalents are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO120H1, BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 75% in each course, or a grade average lower than 80% in these required courses will not be considered for admission. Please note that obtaining the minimum final grades and grade average does not guarantee admission to the program. While it is difficult to predict what will constitute "competitive" course marks in a given year, based on previous years the estimate is: course marks = mid 80s; average = mid 80s.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at studentservices.mogen@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment. Additional information is also available by contacting the Undergraduate Program Coordinator (studentservices.mogen@utoronto.ca).

Completion Requirements:

(14.0 credits)

First Year:

BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1; (MAT135H1, MAT136H1)/ MAT137Y1

First or Second Year:

(PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Second Year:

BCH242Y1; BIO230H1/ BIO255H1, HMB265H1; MGY280H1, CHM247H1, STA220H1/ STA288H1

Third Year (Genetics Stream):

1. MGY340H1, MGY350H1, MGY311Y1, MGY314H1, MGY315H1
2. 0.5 credit from BCH340H1, BCH377H1, MGY360H1, MGY377H1, MGY378H1

Fourth Year (Genetics Stream):

1. MGY420H1, plus 2.5 credits from Genetics Lists 1 and 2, distributed as follows:
2. At least 1.5 credits must be taken from list 1: MGY425H1, MGY428H1, MGY460H1, MGY470H1
3. Up to 1.0 credit may be taken from list 2: MGY440H1, MGY480Y1/ one or both of (MGY481H1 and MGY482H1), BCH428H1, BCH440H1, MGY441H1/ BCH441H1/ CSB472H1, BCH447H1, BCH448H1, EEB460H1

Molecular Genetics And Microbiology Specialist: Microbiology Stream (Science Program) - ASSPE1389

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enroll.

Variable Minimum Grade and Variable Minimum Grade Average

Minimum grades combined with a minimum grade average in required courses or their equivalents are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO120H1, BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 75% in each course, or a grade average lower than 80% in these required courses will not be considered for admission. Please note that obtaining the minimum final grades and grade average does not guarantee admission to the program. While it is difficult to predict what will constitute "competitive" course marks in a given year, based on previous years the estimate is: course marks = mid 80s; average = mid 80s.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the

availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at studentservices.mogen@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment. Additional information is also available by contacting the Undergraduate Program Coordinator (studentservices.mogen@utoronto.ca).

Completion Requirements:

(14.0 credits)

First Year:

([BIO120H1](#), [BIO130H1](#)), ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#), ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)

First or Second Year:

([PHY131H1](#), [PHY132H1](#))/ ([PHY151H1](#), [PHY152H1](#))

Second Year:

[BCH242Y1](#), [BIO230H1](#)/ [BIO255H1](#), [HMB265H1](#), [MGY280H1](#), [CHM247H1](#), [STA220H1](#)/ [STA288H1](#)

Third Year (Microbiology Stream):

1. [IMM341H1](#), [IMM351H1](#), [MGY311Y1](#), [MGY377H1](#), [MGY378H1](#), [MGY380H1](#), [MGY381H1](#)

Fourth Year (Microbiology Stream):

2.5 credits from Microbiology Lists 1 and 2, distributed as follows:

1. At least 1.5 credits must be taken from list 1: [MGY428H1](#), [MGY440H1](#), [MIJ485H1](#), [BCH449H1](#), [IMM428H1](#), [IMM430H1](#), [IMM435H1](#), [LMP402H1](#), [LMP403H1](#), [LMP436H1](#), [NFS485H1](#)

2. Up to 1.0 credit may be taken from list 2: [MGY360H1](#), [MGY420H1](#), [MGY425H1](#), [MGY470H1](#), [MGY480Y1](#)/ one or both of ([MGY481H1](#) and [MGY482H1](#)), [BCH350H1](#), [BCH428H1](#), [MGY441H1](#)/ [BCH441H1](#)/ [CSB472H1](#), [BCH445H1](#)

Pathobiology Specialist (Science Program) - ASSPE2025

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade or Variable Minimum Grade Average

A minimum grade/minimum grade average in required courses or their equivalents is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- [BIO120H1](#) and [BIO130H1](#)
- ([CHM135H1](#) and [CHM136H1](#))/ [CHM151Y1](#)
- ([MAT135H1](#) and [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)

The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at imp.undergrad@utoronto.ca and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for program enrolment information.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Pathobiology Specialist in the Summer after Year 2.

Completion Requirements:

(14.0-15.5 credits, including at least 2.0 credits at the 400-level)

First Year:

- [BIO120H1](#), [BIO130H1](#)
- ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#)
- ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)

First or Second Year:

- ([PHY131H1](#), [PHY132H1](#))/ ([PHY151H1](#), [PHY152H1](#))

Second Year:

- BCH210H1
- BIO230H1
- BIO260H1/ HMB265H1
- CHM220H1
- CHM247H1/ CHM249H1
- PSL300H1, PSL301H1
- STA288H1/ STA220H1/ BIO220H1
- LMP200H1

Third Year:

- BCH370H1, BCH311H1
- LMP310H1, LMP320H1, LMP330H1

Choose one of the options below:

- Option A: Immunology: (IMM341H1, IMM351H1)
- Option B: Microbiology: (MGY377H1, MGY378H1)
- Option C: Anatomy: ANA300Y1
- Option D: Metabolic and Signaling Pathways: PSL425H1 and PCL386H1
- Option E: Research: LMP305Y1 and one of the above four options

Fourth Year:

Students should choose four of the following 400-level courses (2.0-2.5 credits):

- LMP405Y1, LMP410H1, LMP415H1, LMP420H1, LMP430H1, LMP440H1, LMP450H1, LMP460H1

Note: If the research course LMP405Y1 is taken, an additional three 400-level courses from the list are still required (totalling 2.5 credits).

Pharmacology Specialist (Science Program) - ASSPE2082

Pharmacology is an integrative medical science that builds upon the core foundational disciplines of the basic life sciences. The Pharmacology Specialist program aims to provide students with an understanding of the therapeutic properties and clinical uses of externally administered chemical substances in the whole body, as well as the mechanisms of their actions and interactions with molecular, cellular and tissue targets. This understanding prepares students for a variety of either research-based or non-research-based careers, including positions in the pharmaceutical and biotechnology industries, in government agencies, in research institutes and in universities. Students learn about both basic and clinical pharmacology through lectures, tutorials,

laboratories and independent research projects. The senior research project course enables students to gain valuable research experience while working under the supervision of an individual faculty member in either a laboratory-based or a non-laboratory-based setting.

Pharmacology (and its application in clinical therapeutics) plays a prominent role in society, and a comprehension of drug mechanisms and uses is fundamental to career success in the fields of medicine, dentistry, pharmacy and nursing. While some students take the Pharmacology Specialist program in preparation for these professional programs, students are advised to contact the respective Faculties directly for questions related to transfer credits.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 8.0 credits and meet the requirements listed below to enroll. Students interested in this program should initially apply to the Specialist in Pharmacology & Biomedical Toxicology Program (ASSPE2340) after their first year of study. Students in ASSPE2340 will have the opportunity to move into the Pharmacology Specialist (ASSPE2082) following their second year of study.

Students who have completed 4.0 to 7.5 credits cannot apply directly to ASSPE2082 and must first apply to ASSPE2340, using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- 1.0 credit from (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1/ (PHY131H1 and PHY132H1)/ (PHY151H1 and PHY152H1)

Students who have completed at least 8.0 credits and who are already enrolled in ASSPE2340 may enrol in ASSPE2082 themselves on ACORN.

Students who have completed at least 8.0 credits but who are not already enrolled in ASSPE2340 must apply to ASSPE2082 using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- 1.0 credit from (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1/ (PHY131H1 and PHY132H1)/ (PHY151H1 and PHY152H1)
- PCL201H1

Variable Minimum Grade and Variable Minimum Grade Average

A minimum grade and minimum grade average in required courses are needed for entry, and this minimum changes each year depending on available spaces and the number of applicants.

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in

each course, or a combined grade average lower than 75% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade and minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified enrolment requirements, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Arts & Science Internship Program (ASIP)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Pharmacology Specialist in the Summer after Year 2 and completion of [PCL201H1](#) (with a minimum grade of 77%), [PSL300H1](#) and [PSL301H1](#).

Notes:

- While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 80s; average = mid 80s.
- **Students wishing to enroll in the Pharmacology Specialist will initially apply to the Joint Specialist in Pharmacology and Biomedical Toxicology (ASSPE2340). After admission, students can then choose to transfer to the Pharmacology Specialist following second year.** First and second year courses are the same for all Specialist programs within the Department (ASSPE2082/ASSPE2340/ASSPE2573).
- Students cannot combine the Pharmacology Specialist with either departmental Major programs (Biomedical Toxicology or Pharmacology).

- Students wishing to enroll **after** their second year who have taken [PCL201H1](#) will be considered on a case by case basis. Successful completion of required pre-requisite courses is required to further enroll in upper level program courses. Students may not transfer to the Major program from the Specialist after completion of [PCL472Y1](#) or [INT300H1](#)/ [INT301H1](#) in the Arts & Science Internship Program (ASIP).

Completion Requirements:

(14.0 credits)

First Year: [BIO120H1](#), [BIO130H1](#), ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#), and 1.0 credit from any combination of ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#), [PHY131H1](#)/ [PHY151H1](#), [PHY132H1](#)/ [PHY152H1](#) (see NOTE 1)

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second Year: [BCH210H1](#), [BIO230H1](#)/ [BIO255H1](#), [BIO260H1](#)/ [HMB265H1](#), [CHM247H1](#)/ [CHM249H1](#), [STA288H1](#), [PCL201H1](#), ([PSL300H1](#), [PSL301H1](#)) (NOTE: [PSL201Y1](#) is not acceptable)

Third Year: [BCH311H1](#)/ [PSL350H1](#), [PCL302H1](#), at least one 0.5 credit from [PCL367H1](#) or [PCL368H1](#) (see NOTE 2)

Third or Fourth Year: [PCL469H1](#) and 3.0 credits with at least 1.5 credits from PCL courses: [JPM300H1](#)/ [JPM400Y1](#) (see NOTE 3)/ [PCL298H1](#)/ [PCL345H1](#)/ [PCL367H1](#) or [PCL368H1](#) (see NOTE 2)/ [PCL386H1](#)/ [PCL389H1](#)/ [PCL475H1](#)/ [PCL476H1](#)/ [PCL477H1](#)/ [PCL484H1](#)/ [PCL490H1](#)/ [ANA300Y1](#)/ [BCH340H1](#)/ [BCH450H1](#)

Fourth Year: [PCL402H1](#), [PCL470H1](#), [PCL472Y1](#)/ [JPM400Y1](#) (see NOTE 3)

An Integrative, Inquiry-Based Activity Requirement must be satisfied.

The requirement for an integrative, inquiry-based and/or experiential activity must be met by completing at least one of the following: [PCL297H1](#), [PCL298H1](#), [PCL389H1](#), [PCL397Y0](#), [PCL472Y1](#), [JPM400Y1](#). Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

NOTES:

1. Any PHY/MAT courses should be completed during the first year and included for program enrolment.

- At least one 0.5 credit from PCL367H1 or PCL368H1 is required for the program, however if desired the alternative course can be taken as a program elective.
- Enrolment in either PCL472Y1 or JPM400Y1 is limited and requires permission from the Department of Pharmacology and Toxicology. Students must receive prior consent from course coordinator according to Departmental guidelines before the Department will register them in the course. Students can take either course as their required independent project, or may take JPM400Y1 as an additional elective. It is the student's responsibility to make all necessary preparations before the session starts (see course description).
- Students wishing to apply their Arts & Science Internship Program (ASIP) towards the requirement to complete PCL472Y1/ JPM400Y1 should reach out to undergrad.pharmtox@utoronto.ca.

Physiology Specialist (Science Program) - ASSPE0482

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO120H1 and BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- 1.0 credit from MAT135H1, MAT136H1, MAT137Y1, MAT157Y1, PHY131H1, PHY132H1, PHY151H1, PHY152H1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60% in each course, or a grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the

availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at physiology.undergrad@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment, or the Physiology website at www.physiology.utoronto.ca.

Completion Requirements:

(14 credits)

First Year:

BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1; (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

First Year or Upper Years:

(MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1*

Second Year:

1. 2.5 credits from BCH210H1; BIO230H1/ BIO255H1; CHM220H1/ CHM247H1/ CHM249H1; PSL300H1, PSL301H1

2. 1.5 credits from BIO220H1, BIO260H1/ HMB265H1; MAT235Y1, PHY231H1, PSL299Y1/ PSL399Y1, STA220H1/ STA250H1

Third Year:

1. 3 credits from BCH370H1; PSL304H1, PSL305H1, PSL350H1/ CSB349H1/ BCH311H1, PSL372H1, PSL374H1

2. 1 credit from the following list: ANA300Y1, ANA301H1; BME498Y1; CSB325H1, CSB332H1/ CJH332H1, CSB343H1, CSB345H1/ CSB445H1, CSB346H1, CSB347H1; IMM340H1/ IMM341H1, IMM350H1/ IMM351H1; JPM300H1; PCL201H1, PCL285H1, PCL302H1; PHY331H1, PSL310H1; PSL378H1/ PSL379H0/ PSL398H0; PSY397H1

Fourth Year: (at least 2 credits at 400-level)

1. PSL496Y1/ PSL497H1/ PSL498Y1/ PSL499H1/ JPM400Y1

2. 1-1.5 credits from PSL400-series or HMB430H1/ HMB470H1/ HMB472H1

* These courses may be taken in the first year or subsequent years, and are not required for entrance into the specialist program.

Quantitative Biology Major (Science Program) - ASMAJ2368

The Quantitative Biology Major program (8.0 credits) is designed for students with a deep interest in biology who wish to gain a strong grounding in quantitative methods and their application to biological questions. More than ever, advancements in biology, from the molecular through the organismal to the ecosystem level, require quantitative thinking and skills along with a strong understanding of biological processes. Interdisciplinary research that draws from the natural sciences, mathematics, statistics and computer science, is an important aspect of modern biology. This major provides foundations in biology and quantitative approaches used to test and advance biological knowledge, and is appropriate for students who wish to pursue a career or graduate studies in a broad range of life sciences, ranging from biomedical to conservation to epidemiology.

The program is delivered through a mixture of classroom-learning and applied laboratory teaching, with an emphasis on understanding how quantitative methods inform our understanding of biology, and how they can be applied to test and develop new hypotheses. Students also have access to independent research opportunities that enhance professional skills, science communication, and the development and application of knowledge in quantitative biology.

Quantitative Biology Major students have priority enrollment in the EEB courses listed, but not in courses offered by other departments, such as STA, MAT, CSC, CSB and BCB. Students should be aware that some courses listed have prerequisites that are not listed below. For students intending to pursue graduate studies, it is strongly recommended that an independent research course such as EEB498Y1 be included as part of the Quantitative Biology major.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- BIO120H1 (70%)/ BIO130H1 (70%)
- CSC108H1 (70%)/ CSC148H1 (70%)/ CSC110Y1 (70%)/ MAT135H1 (70%)/ MAT136H1 (70%)/ MAT137Y1 (70%)/ MAT157Y1 (70%)

Completion Requirements:

(8.0 credits including at least 2.0 credits at the 300+ level, 0.5 of which must be at the 400 level)

First Year (2.5 credits):

BIO120H1, BIO130H1, EEB125H1/ CSC108H1/ CSC148H1/ CSC110Y1, (MAT135H1, MAT136H1)/
MAT137Y1/ MAT157Y1

Higher Years (5.5 credits):

1. 1.5 credits: BIO220H1, BIO230H1/ BIO255H1, BIO260H1/ HMB265H1
2. 1.0 credit in introductory probability and statistics: EEB225H1, GGR270H1, PSY201H1, PSY202H1, STA220H1, STA221H1, STA237H1, STA238H1, STA247H1, STA248H1, STA255H1, STA257H1, STA261H1, STA288H1
3. 0.5 credit in intermediate math: APM236H1, MAT221H1/ MAT223H1, MAT224H1, MAT240H1, MAT237Y1, MAT247H1
4. 1.0 credit from: CSB352H1, EEB319H1, EEB323H1, EEB324H1, EEB362H1, GGR337H1, GGR372H1, GGR373H1, PHY331H1
5. 1.0 credit from: APM346H1, APM446H1, APM461H1, APM462H1, BCH441H1, CSB472H1, CSC311H1, CSC320H1, CSC336H1, CSC343H1, CSC373H1, CSC384H1, CSC401H1, CSC412H1, CSC413H1, CSC420H1, EEB313H1, EEB430H1, EEB458H1, EEB459H1, EEB460H1, EEB463H1, EEB498Y1, EEB499Y1, MAT332H1, MAT335H1, MAT344H1, MAT351Y1, MGY428H1, PHY431H1, PSY305H1, STA302H1, STA303H1, STA304H1, STA305H1, STA355H1, STA365H1, STA480H1
6. 0.5 credit at 400 level from: BCB410H1, BCB420H1, BCH441H1, CSB435H1, CSB472H1, CSB498Y1, CSB499Y1, EEB430H1, EEB458H1, EEB459H1, EEB460H1, EEB463H1, EEB498Y1, EEB499Y1, PHY431H1, PSY474H1, STA480H1

Specialist in Pharmacology and Biomedical Toxicology (Science Program) - ASSPE2340

Pharmacology and Biomedical Toxicology are complementary sciences, and the Pharmacology and Biomedical Toxicology Specialist combines the requirements of the two distinct specialist programs. The Specialist program integrates knowledge of pharmacology – the understanding of the therapeutic properties and clinical applications of externally administered chemical substances in the whole body and the mechanisms of their actions and interactions with their intended targets, while biomedical toxicology examines the harmful effects of exogenous chemicals on the health and behaviour of individuals and society, addressing drug safety and the adverse consequences of chemical exposure. Biomedical toxicology includes understanding the safety/toxicity of a

wide array of chemicals (pharmaceutical preparations, herbal products, natural toxins and environmental contaminants) with a focus on their effects and adverse consequences on human health.

Both Pharmacology and Biomedical Toxicology are integrative life sciences which build on the core foundational disciplines of the basic life sciences and the prominent role each science plays in society. A comprehension of the biological mechanisms of action and potential uses of chemicals are key to career success in the fields of medicine, dentistry, pharmacy and nursing. The Specialist program prepares students for a variety of job opportunities following its completion as well as for further study in graduate research or professional programs such as Medicine, Dentistry, and Pharmacy. (Note: Students interested in professional programs should contact the respective faculties to inquire about specific transfer credits.) Graduates of this rigorous program will have access to an impressive variety of job opportunities in either research-based or non-research-based careers, including scientific research in research institutes and in universities, positions in the pharmaceutical, biotechnology and chemical industries, forensic science, nutrition and food sciences, government or consulting agencies. Students learn about both basic and clinical pharmacology and biomedical toxicology through lectures, tutorials, small group sessions, laboratories and independent research projects. The senior research project course enables students to gain valuable research experience while working under the supervision of an individual faculty member in either a laboratory-based or a non-laboratory-based setting.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade or Variable Minimum Grade Average

A minimum grade/minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

Students who have completed 4.0 to 7.5 credits can apply directly to ASSPE2340 using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- 1.0 credit from (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1/ (PHY131H1 and PHY132H1)/ (PHY151H1 and PHY152H1)

Students who have completed at least 8.0 credits and who are already enrolled in ASSPE2340 have the option of

remaining in the program until completion or may enrol themselves in ASSPE2082 or ASSPE2573 on ACORN.

Students who have completed at least 8.0 credits but who are not already enrolled in ASSPE2340 must apply using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- 1.0 credit from (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1/ (PHY131H1 and PHY132H1)/ (PHY151H1 and PHY152H1)
- PCL201H1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in each course, or a combined grade average lower than 75% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Arts & Science Internship Program (ASIP)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Specialist in Pharmacology and Biomedical Toxicology in the Summer after Year 2 and completion of PCL201H1 (with a minimum grade of 77%), PSL300H1 and PSL301H1.

Notes:

- While it is difficult to predict what will be competitive course marks and average in a given

year, based on previous years, the estimate is: course marks = mid 80s; average = mid 80s.

- **Students wishing to enroll in the Pharmacology Specialist (ASSPE2082) or Biomedical Toxicology Specialist (ASSPE2573) will initially apply to the Joint Specialist in Pharmacology and Biomedical Toxicology (ASSPE2340). After admission, students can then choose to transfer to the Pharmacology or Biomedical Toxicology Specialist following second year.** First and second year courses are the same for all Specialist programs within the Department (ASSPE2082/ASSPE2340/ASSPE2573).
- Students cannot combine the Pharmacology and Biomedical Toxicology Specialist with either departmental Major programs (Biomedical Toxicology or Pharmacology).
- Students wishing to enroll **after** their second year who have taken PCL201H1 will be considered on a case by case basis. Successful completion of required pre-requisite courses is required to further enroll in upper level program courses. Students may not transfer to the Major program from the Specialist after completion of PCL472Y1/ PCL474Y1 courses or INT300H1/ INT301H1 in the Arts & Science Internship Program (ASIP).

Completion Requirements:

(14.5 credits)

First Year: BIO120H1, BIO130H1, (CHM135H1, CHM136H1)/ CHM151Y1, and 1.0 credit from any combination of (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1, PHY131H1/ PHY151H1, PHY132H1/ PHY152H1 (see NOTE 1)

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second Year: BCH210H1, BIO230H1/ BIO255H1, BIO260H1/ HMB265H1, CHM247H1/ CHM249H1, STA288H1, PCL201H1, (PSL300H1, PSL301H1) (NOTE: PSL201Y1 is not acceptable)

Third Year: BCH311H1/ PSL350H1, PCL302H1, PCL381H1, at least one 0.5 credit from PCL367H1 or PCL368H1 (see NOTE 2)

Third or Fourth Year: LMP363H1, PCL469H1, and 1.5 credits from the following courses: JPM300H1/ JPM400Y1 (see NOTE 3)/ PCL298H1/ PCL345H1/ PCL362H1 / PCL367H1 or PCL368H1 (see NOTE 2)/ PCL386H1/ PCL389H1/ PCL475H1/ PCL476H1/ PCL477H1/ PCL484H1/ PCL490H1/ LMP301H1. Additional courses that may strengthen your background in this program can be taken, but will not count towards your program: ANA300Y1/ ANA301H1/ BCH340H1/ CHM310H1

Fourth Year: PCL402H1; PCL470H1; (PCL482H1, PCL483H1); PCL472Y1/ PCL474Y1/ JPM400Y1 (see NOTE 3)

An Integrative, Inquiry-Based Activity Requirement must be satisfied.

The requirement for an integrative, inquiry-based and/or experiential activity must be met by completing at least one of the following: PCL297H1, PCL298H1, PCL389H1, PCL397Y0, PCL472Y1, PCL474Y1, JPM400Y1. Students who complete the Arts & Science Internship Program (ASIP) will also meet this requirement.

NOTES:

1. Any PHY/MAT courses should be completed during the first year and included for program enrolment.
2. At least one 0.5 credit from PCL367H1 or PCL368H1 is required for the program, however if desired the alternative course can be taken as a program elective.
3. Enrolment in any of PCL472Y1/ PCL474Y1 or JPM400Y1 is limited and requires permission from the Department of Pharmacology and Toxicology. Students must receive prior consent from the course coordinator according to Departmental guidelines before the Department will register them in the course. Students can take either course as their required independent project, or may take JPM400Y1 as an additional elective. It is the student's responsibility to make all necessary preparations before the session starts (see course description).
4. Students wishing to apply their Arts & Science Internship Program (ASIP) towards the requirement to complete PCL472Y1/ PCL474Y1/ JPM400Y1 should reach out to undergrad.pharmtox@utoronto.ca.

Data Science in the Physical Sciences

Biological Chemistry Specialist (Science Program) - ASSPE1995

Consult Professor G. A. Woolley, Department of Chemistry.

Biological Chemistry examines Nature at the molecular level by using a combination of synthetic, inorganic, analytical and physical chemistry as well as the tools of molecular biology and biochemistry. This program provides the setting to understand the chemical reactions

and interactions that occur in biological processes, as well as how chemical strategies can be used to control these systems. This program includes sufficient flexibility to allow focus in areas such as bioinorganic, bioorganic, biophysical or medicinal chemistry. Students graduating from this program will be prepared for career paths in the biotechnology, biomedical and pharmaceutical sectors, as well as for research and teaching in related areas of chemistry and biology. This program is accredited by the Canadian Society for Chemistry.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- ([CHM135H1](#), [CHM136H1](#)) (63% in each)/ [CHM151Y1](#) (63%)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Biological Chemistry Specialist in the Summer after Year 2.

Completion Requirements:

(14.0 credits, including 3.0 credits from 400-level courses)

First Year: [BIO120H1](#), [BIO130H1](#); [CHM151Y1](#) (strongly recommended)/ ([CHM135H1](#), [CHM136H1](#)); ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)

First or Second Year: ([PHY131H1](#), [PHY132H1](#))/ ([PHY151H1](#), [PHY152H1](#))

Second and Higher Years:

1. [BCH210H1](#); [BIO230H1](#)/ [BIO255H1](#); [CHM217H1](#), [CHM220H1](#)/ [CHM222H1](#) ([CHM220H1](#) recommended), ([CHM236H1](#), [CHM237H1](#))/ [CHM238Y1](#), [CHM249H1](#)
2. [CHM310H1](#), [CHM347H1](#), [CHM348H1](#), [CHM379H1](#)
3. At least 1.0 credit from the following: [CHM317H1](#), [CHM327H1](#), [CHM338H1](#), [CHM343H1](#), [CHM395Y1](#)/ [CHM499Y1](#)/ [PHC489Y1](#), [CHM410H1](#)
4. [CHM437H1](#), [CHM447H1](#), [CHM479H1](#)

5. Additional 300/400-level BCH or CHM courses to a total of 14.0 credits. [CSB450H1](#) is also acceptable.

Students in this program have the option to complete the [Arts & Science Internship Program](#) (ASIP) stream.

Biological Physics Specialist: Advanced Physics Stream (Science Program) - ASSPE2739

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Biological Physics Specialist: Advanced Physics Stream in the Summer after Year 2.

Completion Requirements:

Core Biological Physics Courses (12.0 credits)

First Year (3.0 credits): ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#), ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#), [PHY131H1](#)/ [PHY151H1](#), [PHY132H1](#)/ [PHY152H1](#) ([PHY151H1](#), [PHY152H1](#) recommended)

First or Second Year (1.0 credit): [BIO130H1](#), [MAT223H1](#)

Second Year (3.0 credits): [BCH210H1](#), ([MAT235Y1](#)/ [MAT237Y1](#)), [MAT244H1](#), [PHY250H1](#), [PHY252H1](#)

Second or Third Year (0.5 credit): [BIO230H1](#)/ [BIO255H1](#)

Third Year (2.0 credits): [PHY224H1](#), [PHY254H1](#), [PHY256H1](#), [PHY354H1](#)

Third or Fourth Year (2.5 credits):

1. [PHY331H1](#), [PHY431H1](#)
2. [PHY324H1](#)/ [BCH370H1](#)/ [CHM327H1](#)/ [PSL372H1](#)
3. 1.0 credit, including at least 0.5 credit at the 400-level, from [APM346H1](#)/ [PHY 300-level courses](#)/ [PHY 400-level courses](#) ([APM346H1](#), [PHY350H1](#), [PHY356H1](#),

PHY407H1, PHY452H1, PHY454H1, PHY460H1 recommended)

Additional Requirements for the Advanced Physics Stream (2.5 credits):

1. (BCH311H1, BCH340H1) / (PSL300H1, PSL301H1)
2. 1.5 credits, including at least 0.5 credit at the 400-level, from PHY 300-level courses, PHY 400-level courses

Integrative, Inquiry-Based Activity Requirement

The choices in the program must satisfy the requirement for an integrative, inquiry-based activity by including at least one of the following courses: PHY371Y1, PHY372H1, PHY378H1, PHY379Y1, PHY396Y0, PHY397Y0, PHY398H0, PHY398Y0, PHY399Y0, PHY399Y1, PHY407H1, PHY424H1, PHY426H1, PHY428H1, PHY429H1, PHY471Y1, PHY472H1, PHY478H1, PHY479Y1.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

Students are encouraged but not required to enrol in the independent project courses PHY478H1/ PHY479Y1. These students may be supervised by faculty in the Departments of Physics, Biochemistry, Chemistry, Immunology, and Physiology. Students are required to have a B average in the program courses, identify a supervisor, and consult the Associate Chair of Physics (Undergraduate Studies) before enrolling in PHY478H1/ PHY479Y1.

Students might wish to enrol in 300- and 400-level courses in the partner life science departments that are not listed above, including independent research or project courses. These students will need approval to take these courses from the Associate Chair (Undergraduate Studies) prior to enrolment in the course.

Biological Physics Specialist: Biochemistry Stream (Science Program) - ASSPE2737

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream

after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Biological Physics Specialist: Biochemistry Stream in the Summer after Year 2.

Completion Requirements:

Core Biological Physics Courses (12.0 credits):

First Year (3.0 credits): (CHM135H1, CHM136H1) / CHM151Y1, (MAT135H1, MAT136H1) / MAT137Y1, PHY131H1/ PHY151H1, PHY132H1/ PHY152H1 (PHY151H1, PHY152H1 recommended)

First or Second Year (1.0 credit): BIO130H1, MAT223H1

Second Year (3.0 credits): BCH210H1, (MAT235Y1/ MAT237Y1), MAT244H1, PHY250H1, PHY252H1

Second or Third Year (0.5 credit): BIO230H1/ BIO255H1

Third Year (2.0 credits): PHY224H1, PHY254H1, PHY256H1, PHY354H1

Third or Fourth Year (2.5 credits):

1. PHY331H1, PHY431H1
2. PHY324H1/ BCH370H1/ CHM327H1/ PSL372H1
3. 1.0 credit, including at least 0.5 credit at the 400-level, from APM346H1/ PHY 300-level courses/ PHY 400-level courses (APM346H1, PHY350H1, PHY356H1, PHY407H1, PHY452H1, PHY454H1, PHY460H1 recommended)

Additional Courses for the Biochemistry Stream (2.5 credits):

1. BCH311H1, BCH340H1
2. 1.5 credits from BCH370H1/ CSB428H1/ BCH 400-level courses (BCH422H1, BCH425H1, BCH426H1, BCH428H1, BCH440H1, BCH450H1 recommended). Excludes BCH472Y1, BCH473Y1, BCH478H1, BCH479H1.

Integrative, Inquiry-Based Activity Requirement

The choices in the program must satisfy the requirement for an integrative, inquiry-based activity by including at least one of the following courses: PHY371Y1, PHY372H1, PHY378H1, PHY379Y1, PHY396Y0, PHY397Y0, PHY398H0, PHY398Y0, PHY399Y0, PHY399Y1, PHY407H1, PHY424H1, PHY426H1, PHY428H1, PHY429H1, PHY471Y1, PHY472H1, PHY478H1, PHY479Y1, BCH472Y1 and BCH473Y1.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

Students are encouraged but not required to enroll in the independent project courses PHY478H1/ PHY479Y1. These students may be supervised by faculty in the Departments of Physics, Biochemistry, Chemistry, Immunology, and Physiology. Students are required to have a B average in the program courses, identify a supervisor, and consult the Associate Chair of Physics (Undergraduate Studies) before enrolling in PHY478H1/ PHY479Y1.

Students might wish to enrol in 300- and 400-level courses in the partner life science departments that are not listed above, including independent research or project courses. These students will need approval to take these courses from the Associate Chair (Undergraduate Studies) prior to enrolment in the course.

On approval of the Department of Physics, students who take CHM222H1 will not have to take PHY252H1.

Biological Physics Specialist: Immunology Stream (Science Program) - ASSPE2740

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Biological Physics Specialist: Immunology Stream in the Summer after Year 2.

Completion Requirements:

Core Biological Physics Courses (12.0 credits)

First Year (3.0 credits): (CHM135H1, CHM136H1/ CHM151Y1, (MAT135H1, MAT136H1/ MAT137Y1, PHY131H1/ PHY151H1, PHY132H1/ PHY152H1 (PHY151H1, PHY152H1 recommended)

First or Second Year (1.0 credit): BIO130H1, MAT223H1

Second Year (3.0 credits): BCH210H1, (MAT235Y1/ MAT237Y1), MAT244H1, PHY250H1, PHY252H1

Second or Third Year (0.5 credit): BIO230H1/ BIO255H1

Third Year (2.0 credits): PHY224H1, PHY254H1, PHY256H1, PHY354H1

Third or Fourth Year (2.5 credits):

1. PHY331H1, PHY431H1
2. PHY324H1/ BCH370H1/ CHM327H1/ PSL372H1
3. 1.0 credit, including at least 0.5 credit at the 400-level from APM346H1/ PHY 300-level courses/ PHY 400-level courses (APM346H1, PHY350H1, PHY356H1, PHY407H1, PHY452H1, PHY454H1, PHY460H1 recommended)

Additional Courses for the Immunology Stream (2.5 credits):

1. IMM341H1, IMM351H1 (Students in the Biological Physics Specialist Immunology Stream are permitted to take BIO230H1 as a co-requisite to IMM341H1, instead of as a prerequisite, by permission of the Department of Immunology)
2. 1.0 credit from (STA220H1/ STA288H1, STA221H1) or (STA237H1, STA238H1) and 0.5 credit from IMM 400-level courses, OR 0.5 credit from STA220H1/ STA288H1 and 1.0 credit from IMM 400-level courses

Integrative, Inquiry-Based Activity Requirement

The choices in the program must satisfy the requirement for an integrative, inquiry-based activity by including at least one of the following courses: PHY371Y1, PHY372H1, PHY378H1, PHY379Y1, PHY396Y0, PHY397Y0, PHY398H0, PHY398Y0, PHY399Y0, PHY399Y1, PHY407H1, PHY424H1, PHY426H1, PHY428H1, PHY429H1, PHY471Y1, PHY472H1, PHY478H1, PHY479Y1, IMM385Y1, IMM435H1 and IMM450Y1.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

Students are encouraged but not required to enrol in the independent project courses PHY478H1/ PHY479Y1. These students may be supervised by faculty in the Departments of Physics, Biochemistry, Chemistry, Immunology, and Physiology. Students are required to have a B average in the program courses, identify a supervisor, and consult the Associate Chair of Physics (Undergraduate Studies) before enrolling in PHY478H1/ PHY479Y1.

Students might wish to enrol in 300- and 400-level courses in the partner life science departments that are

not listed above, including independent research courses. These students will need approval to take these courses from the Associate Chair (Undergraduate Studies) prior to enrolment in the course.

On approval of the Department of Physics, students who take CHM222H1 will not have to take PHY252H1.

Biological Physics Specialist: Physiology Stream (Science Program) - ASSPE2738

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Biological Physics Specialist: Physiology Stream in the Summer after Year 2.

Completion Requirements:

Core Biological Physics Courses (12.0 credits):

First Year (3.0 credits): (CHM135H1, CHM136H1)/ CHM151Y1, (MAT135H1, MAT136H1)/ MAT137Y1, PHY131H1/ PHY151H1, PHY132H1/ PHY152H1 (PHY151H1, PHY152H1 recommended)

First or Second Year (1.0 credit): BIO130H1, MAT223H1

Second Year (3.0 credits): BCH210H1, (MAT235Y1/ MAT237Y1), MAT244H1, PHY250H1, PHY252H1

Second or Third Year (0.5 credit): BIO230H1/ BIO255H1

Third Year (2.0 credits): PHY224H1, PHY254H1, PHY256H1, PHY354H1

Third or Fourth Year (2.5 credits):

1. PHY331H1, PHY431H1
2. PHY324H1/ BCH370H1/ CHM327H1/ PSL372H1
3. 1.0 credit, including at least 0.5 credit at the 400-level, from APM346H1/ PHY 300-level courses/ PHY 400-level courses (APM346H1, PHY350H1, PHY356H1,

PHY407H1, PHY452H1, PHY454H1, PHY460H1 recommended)

Additional Courses for the Physiology Stream (2.5 credits):

1. PSL300H1, PSL301H1
2. 1.5 credits, including at least 0.5 credit at the 400-level, from PSL304H1/ PSL305H1/ PSL372H1/ PSL 400-level courses (PSL432H1, PSL440Y1, PSL445H1, PSL452H1 recommended)

Integrative, Inquiry-Based Activity Requirement

The choices in the program must satisfy the requirement for an integrative, inquiry-based activity by including at least one of the following courses: PHY371Y1, PHY372H1, PHY378H1, PHY379Y1, PHY396Y0, PHY397Y0, PHY398H0, PHY398Y0, PHY399Y0, PHY399Y1, PHY407H1, PHY424H1, PHY426H1, PHY428H1, PHY429H1, PHY471Y1, PHY472H1, PHY478H1, PHY479Y1, PSL398H0, PSL398Y0, PSL399Y1, PSL498Y1 and PSL499H1.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

Students are encouraged but not required to enrol in the independent project courses PHY478H1/ PHY479Y1. These students may be supervised by faculty in the Departments of Physics, Biochemistry, Chemistry, Immunology, and Physiology. Students are required to have a B average in the program courses, identify a supervisor, and consult the Associate Chair of Physics (Undergraduate Studies) before enrolling in PHY478H1/ PHY479Y1.

Students might wish to enrol in 300- and 400-level courses in the partner life science departments that are not listed above, including independent research or project courses. These students will need approval to take these courses from the Associate Chair (Undergraduate Studies) prior to enrolment in the course.

On approval of the Department of Physics, students who take CHM222H1 will not have to take PHY252H1.

Chemical Physics Specialist (Science Program) - ASSPE0600

Consult Professor J. Schofield, Department of Chemistry.

Chemical Physics aims to explain structure and dynamics of molecular and bulk systems in terms of atomic and

molecular interactions. Sub-disciplines and specialized topics include reaction dynamics, spectroscopy, optical control of molecular processes, nanoscale science, surface chemistry, theoretical and experimental studies of soft systems (polymers, liquids, biological systems), quantum control and quantum information sciences. The Chemical Physics program will provide students with a solid grounding in physical chemistry, and will prepare students for careers in experimental and theoretical physical sciences, in academia or in research development for companies.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- ([CHM135H1](#), [CHM136H1](#)) (63% in each)/ [CHM151Y1](#) (63%)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Chemical Physics Specialist in the Summer after Year 2.

Completion Requirements:

(14.0 credits, including 1.5 credits from 400-level courses)

First Year:

1. ([CHM151Y1](#) strongly recommended)/ ([CHM135H1](#), [CHM136H1](#))
2. ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)
3. ([PHY131H1](#), [PHY132H1](#))/ ([PHY151H1](#), [PHY152H1](#))

Higher Years:

1. [APM346H1](#), [CHM222H1](#), [CHM223H1](#), [CHM326H1](#)/ [PHY356H1](#), [CHM327H1](#), [CHM328H1](#), [MAT223H1](#)/ [MAT240H1](#), [MAT235Y1](#)/ [MAT237Y1](#), [MAT244H1](#), [MAT334H1](#), [PHY250H1](#), [PHY254H1](#), [PHY354H1](#), [PHY350H1](#), [CHM423H1](#)/ [PHY456H1](#)

2. 2.0 credits from: [CHM210H1](#), [CHM217H1](#), ([CHM236H1](#), [CHM237H1](#))/ [CHM238Y1](#), ([CHM249H1](#) strongly recommended)/ [CHM247H1](#), [CHM310H1](#), [CHM317H1](#), [CHM338H1](#), [CHM348H1](#), [CHM415H1](#)
3. Additional 400-level CHM/PHY 0.5 credit courses to a total of 14.0 credits. (Note: [CHM395Y1](#) can be used toward this requirement).

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\)](#) stream.

Chemistry Major (Science Program) - ASMAJ1376

Consult Professor A. Dicks, Department of Chemistry.

The Chemistry Major Program provides exposure to the core areas of chemistry together with appropriate courses in mathematics during the first two years and allows students to follow a particular area or areas of interest during the third year and fourth year. The program is extremely flexible in its design in that students may focus their studies in the traditional sub-disciplines of inorganic, analytical, organic, or physical chemistry during the second year, and then progress to take upper-year courses in these areas or in additional sub-disciplines including biological, materials and environmental chemistry. Students gain extensive laboratory experience throughout the program from whichever path they choose to take.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- ([CHM135H1](#) and [CHM136H1](#)) (63% in each)/ [CHM151Y1](#) (63%)

Completion Requirements:

(8.0 credits, including at least one 0.5 CHM credit at the 400-level)

First Year: ([CHM151Y1](#) strongly recommended)/ ([CHM135H1](#) and [CHM136H1](#)); ([MAT135H1](#) and [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)

Second Year:

At least two of the following four options:

- CHM217H1
- CHM220H1/ CHM222H1
- (CHM236H1 and CHM237H1)/ CHM238Y1
- CHM249H1/ CHM247H1

Third Year: At least two of CHM317H1, CHM327H1, CHM338H1, CHM343H1, CHM348H1, CHM379H1

Fourth Year: Additional 200/300/400-level CHM courses to a total of 7.0 credits (CHM299H1, CHM299Y1, CHM396Y0, CHM397H0, CHM398H0, CHM398Y0, CHM399H1, CHM399Y1 excluded). Students may count either CHM395Y1 or CHM499Y1 towards Chemistry Major requirements.

Chemistry Specialist (Science Program) - ASSPE1376

Consult Professor A. Dicks, Department of Chemistry.

The Chemistry Specialist Program provides broad coverage of the core areas of chemistry together with appropriate courses in mathematics and physics during the first three years and allows students to follow a particular area of interest or a more general program in the fourth year. The program is suitable for professional work in any area of chemistry and for entry into graduate school to continue work in any of the sub-fields of chemistry, provided that appropriate options are chosen in the fourth year. This program is accredited by the Canadian Society for Chemistry.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- (CHM135H1, CHM136H1) (63% in each)/ CHM151Y1 (63%)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Chemistry Specialist in the Summer after Year 2.

Completion Requirements:

(14.0 credits, including at least 3.0 credits from 400-level courses)

First Year:

1. (CHM151Y1 strongly recommended)/ (CHM135H1, CHM136H1)
2. (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1
3. (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Second Year:

1. CHM217H1, CHM220H1/ CHM222H1, CHM223H1, (CHM236H1, CHM237H1)/ CHM238Y1, CHM249H1
2. MAT235Y1/ MAT237Y1

Third and Fourth Years:

1. BCH210H1, CHM326H1/ CHM328H1, CHM327H1
2. Additional credits from 300/400-level CHM/ MAT/ another science, including at least three of CHM317H1, CHM338H1, CHM343H1, CHM379H1, CHM395Y1/ CHM499Y1/ PHC489Y1, CHM410H1. Minimum 3.0 CHM credits at the 400-level to a total of 14.0 credits.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Materials Science Specialist (Science Program) - ASSPE2424

Consult Professor Andrew Dicks, Department of Chemistry.

This program draws both on the basic sciences of chemistry and physics, and on the more applied areas such as metallurgy or ceramics. Courses dealing with these latter fields are offered through the Department of Materials Science in the Faculty of Applied Science and Engineering. This is an appropriate program for students with career interests in solid-state, polymer, or composite materials industries, or for graduate work in either chemistry or materials science, with an appropriate choice of options. Students may follow the Materials Chemistry path by taking the research course CHM499Y1 or the Materials Science and Engineering path by taking the research courses MSE492H1 and MSE493H1. This program is accredited by the Canadian Society for Chemistry.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- (CHM135H1, CHM136H1) (63% in each)/ CHM151Y1 (63%)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Materials Science Specialist in the Summer after Year 2.

Completion Requirements:

(14.0 credits, including 1.0 credit from 400-level courses)

First Year:

1. BIO120H1
2. CHM151Y1 (strongly recommended)/ (CHM135H1, CHM136H1)
3. (MAT135H1, MAT136H1)/ MAT137Y1/
MAT157Y1
4. MSE120H1

First or Second Year:

1. BIO130H1/ BIO220H1
2. (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Second Year and Higher Years:

1. CHM220H1/ CHM222H1/ MSE202H1*, CHM223H1, (CHM236H1, CHM237H1)/ CHM238Y1, CHM247H1/ CHM249H1
2. MSE219H1, (MSE218H1/ MSE318H1), MSE335H1
3. CHM327H1, CHM338H1, CHM343H1/ CHM348H1, CHM325H1/ CHM355H1, CHM434H1/ CHM455H1, CHM426H1/ CHM457H1
4. At least 1.5 credits from the following, of which 0.5 credit must be at the 400-level: MSE302H1, MSE316H1, MSE343H1, CHM446H1/ CHM456H1, CHM458H1, MSE415H1,

5. CHM499Y1/ (MSE492H1, MSE493H1)

*It is highly recommended that students in the Materials Science Specialist Program complete MSE202H1.

Students in this program have the option to complete the [Arts & Science Internship Program](#) (ASIP) stream.

Pharmaceutical Chemistry Specialist (Science Program) - ASSPE1211

Consult Professor D. Dubins, Faculty of Pharmacy

The Pharmaceutical Chemistry Specialist Program combines knowledge of the biological, medical, and physical sciences in the study of the scientific aspects of drug therapy, with an emphasis placed on the chemical nature of the reactions and interactions involved in drug therapy. The program is offered jointly by the Department of Chemistry and the Leslie Dan Faculty of Pharmacy at the University of Toronto. Students in the Pharmaceutical Chemistry Specialist program will receive a solid background and training in physical, organic, and analytical chemistry, and will also learn the fundamental aspects of the synthesis, manufacture, use, and mode of action of drugs. This program provides excellent preparation for future work in the pharmaceutical industry and is accredited by Canadian Society for Chemistry,

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO120H1 and BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- (PHY131H1 and PHY132H1)/ (PHY151H1 and PHY152H1)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60%, or a grade average lower than 70% will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Pharmaceutical Chemistry Specialist in the Summer after Year 2.

Completion Requirements:

(13.0 credits, including 1.0 credit from 400-level courses)

NOTE: Some of the courses listed below may have prerequisites.

First Year:

1. [BIO120H1](#), [BIO130H1](#)
2. ([CHM135H1](#) and [CHM136H1](#))/ [CHM151Y1](#)
3. ([PHY131H1](#) and [PHY132H1](#))/ ([PHY151H1](#) and [PHY152H1](#))

Second Year:

1. [BCH210H1](#)
2. [BIO230H1](#)
3. [CHM220H1](#)/ [CHM222H1](#), [CHM223H1](#), ([CHM249H1](#) strongly recommended/ [CHM247H1](#))
4. [PCL201H1](#)
5. [PHC230H1](#)

Third Year:

1. [CHM217H1](#)
2. [PHC300H1](#), [PHC301H1](#), [PHC320H1](#), [PHC330H1](#), [PHC340Y1](#)

Fourth Year:

1. [PHC489Y1](#)/ [CHM499Y1](#)/ [CHM395Y1](#)
2. 2.0 credits from: [CHM317H1](#), [CHM342H1](#), [CHM347H1](#), [CHM379H1](#), [CHM410H1](#), [CHM414H1](#), [CHM417H1](#), [CHM427H1](#), [CHM440H1](#), [JPM300H1](#), [JPM400Y1](#), [PCL362H1](#), [PCL386H1](#), [PHC331H1](#), [PHC401H1](#), [PHC420H1](#), [PHC421H1](#), [PHC430H1](#), [PHC431H1](#), [PHC432H1](#), [PHC435H1](#), [PHC460H1](#), [PHC462H1](#), [PHC470H1](#), [PSL300H1](#), [PSL301H1](#)

Note that not all of the 400-level PHC courses are offered every academic year.

Physics and Philosophy Specialist (Science Program) - ASSPE2584

Physics has deep historical roots in natural philosophy and many aspects of contemporary Physics raise profound philosophical questions about the nature of reality. The interdisciplinary Physics and Philosophy Program allows the student to engage with both Physics and Philosophy at their deepest levels, and to more fully explore the connections between them.

Consult Associate Chair (Undergraduate Studies), Department of Physics or Philosophy.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(15.0 credits, including at least 1.5 credits at the 400-level)

First Year: (2.5 credits)

([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#), [MAT223H1](#)/ [MAT240H1](#), [PHY131H1](#)/ [PHY151H1](#), [PHY132H1](#)/ [PHY152H1](#) (The courses [MAT137Y1](#), [MAT223H1](#), [PHY151H1](#), [PHY152H1](#) are recommended.)

First or Second Year: (1.5 credits)

1.5 credits of: [PHL232H1](#)/ [PHL233H1](#)/ [PHL240H1](#)/ [PHL245H1](#)/ [HPS250H1](#)/ [PHL255H1](#) ([PHL245H1](#) may only be counted here if [MAT157Y1](#) is not taken)

Second Year: (3.0 credits)

[MAT237Y1](#)/ [MAT257Y1](#)/ [MAT235Y1](#), [MAT244H1](#)/ [MAT267H1](#), [PHY250H1](#), [PHY254H1](#), [PHY256H1](#) (The courses [MAT237Y1](#), [MAT244H1](#) are recommended.)

Third Year: (2.0 credits)

[MAT334H1](#)/ [MAT354H1](#), [PHY252H1](#), ([PHY350H1](#)/ [PHY354H1](#)), [PHY356H1](#)

Fourth Year: (1.0 credit)

[PHY456H1](#), [PHY491H1](#)

Any Year: (5.0 credits)

([PHL345H1](#)/ [PHL347H1](#)), [PHL355H1](#), [PHL356H1](#), ([PHL415H1](#)/ [PHL455H1](#)/ [PHL482H1](#)), plus 1.0 credit of (

PHL325H1/ PHL331H1/ PHL332H1/ PHL346H1/ PHL354H1/ PHL357H1) plus 2.0 additional PHL credits, at least 0.5 credit of which must be from Course Group 2 - Value Theory (The courses PHL265H1, PHL275H1 are recommended.)

Group 2 - Value Theory:

PHL265H1, PHL295H1, PHL365H1, PHL366H1, PHL370H1, PHL375H1, PHL407H1, PHL412H1, PHL413H1, PHL483H1

Physics Major (Science Program) - ASMAJ1944

A Physics Major program is appropriate for students interested in a more flexible and diverse undergraduate physics program. A Physics Major may be tailored to be a natural counterpart to a second Major in mathematics, astronomy, computer science, environmental science, geology or the life sciences. Students should consult the Associate Chairs (Undergraduate Studies) of Physics and the respective departments for advice on course selections.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Physics Major in the Summer after Year 2.

Completion Requirements:

(8.0 credits, including 2.0 credits at the 300+ level, with at least one 0.5 credit at the 400-level)

First Year: (2.0 credits)

(MAT135H1, MAT136H1/ MAT137Y1/ MAT157Y1, PHY131H1/ PHY151H1, PHY132H1/ PHY152H1)

Second Year: (3.0 credits)

1. MAT235Y1/ MAT237Y1/ MAT257Y1, MAT223H1/ MAT240H1, PHY224H1

2. 1.0 credit from PHY231H1, PHY250H1, PHY252H1, PHY254H1, PHY256H1, PHY331H1

Third Year: (2.5 credits)

1. MAT244H1/ MAT267H1, PHY324H1/ PHY405H1/ PHY407H1/ PHY408H1

2. 1.5 credits, including at least a 0.5 credit at the PHY 400-level, from APM346H1/ MAT334H1/ MAT354H1/ PHY 300-level courses/ PHY 400-level courses/ JPE395H1/ JPE493H1, excluding JPH311H1, JPH441H1. A maximum of a 0.5 credit from APM346H1/ MAT334H1/ MAT354H1 may be used to fulfil this requirement

Third or Fourth Year: (0.5 credit)

1. Ethics and Social Responsibility Requirement: The Physics course JPH441H1 meets this requirement as well as any of the following courses: HPS200H1/ ENV222H1/ ENV333H1/ ESS205H1/ PHL273H1/ VIC172Y1/ AST310H1. See Note 2.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

1. Students in the Physics Major program who are intending to pursue graduate studies in Physics should consult with the Associate Chair (Undergraduate Studies).

2. Requirement 1 in Third or Fourth Year represents a 0.5 credit with a significant emphasis on "Ethics and Social Responsibility", in the context of the physical sciences. Students may use the CR/NCR option towards any of the courses listed in Requirement 1. Another Arts & Science course with a significant emphasis on "Ethics and Social Responsibility", in the context of the physical sciences, may be substituted subject to approval from the Associate Chair (Undergraduate Studies).

Physics Minor (Science Program) - ASMIN1944

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year: (1.0 credit)

PHY131H1/ PHY151H1, PHY132H1/ PHY152H1

Second Year: (2.0 credits)

1. PHY224H1

2. 1.5 credits from PHY231H1, PHY250H1, PHY252H1, PHY254H1, PHY256H1

Third Year: (1.0 credit)

1. PHY324H1/ PHY405H1/ PHY407H1/ PHY408H1

2. 0.5 credit from: PHY 300-level course/PHY 400-level course/ JPE395H1/ JPE493H1, excluding JPH311H1, JPH441H1

Physics Specialist (Science Program) - ASSPE1944

The Physics Specialist Program offers rigorous training in the full spectrum of core physics subfields, as well as their numerous important applications. Practical courses treat the experimental and computational aspects and complement the lecture courses. Physics concerns many of the most fundamental questions in our scientific understanding of the universe. What is the nature of matter and energy at the smallest scales? What are the physical processes that govern the Earth's climate? What is the nature of light and how can it be controlled? How do the collective properties of solids emerge from those of individual atoms? How do biological processes organize themselves to maintain their survival? What is the structure and evolution of the Earth and the other planets? How can quantum information be used for computation? Physics seeks answers to these questions using a combination of theory, computation and precise experimental work, and the results find application across all of science.

Consult the Associate Chair (Undergraduate Studies), Department of Physics.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have

been admitted to the Physics Specialist in the Summer after Year 2.

Completion Requirements:

(13.5 credits, including 1.0 credit at the 400-level)

First Year: (2.5 credits)

(MAT135H1, MAT136H1/ MAT137Y1/ MAT157Y1, MAT223H1/ MAT240H1, PHY131H1/ PHY151H1, PHY132H1/ PHY152H1

(The courses MAT137Y1, MAT223H1, PHY151H1, PHY152H1 are recommended.)

Second Year: (4.0 credits)

MAT237Y1/ MAT257Y1/ MAT235Y1, MAT244H1/ MAT267H1, PHY224H1, PHY250H1, PHY252H1, PHY254H1, PHY256H1

(The courses MAT237Y1, MAT244H1 are recommended.)

Second or Third Year: (0.5 credit)

PHY324H1

Third Year: (3.0 credits)

1. APM346H1, MAT334H1/ MAT354H1, PHY350H1, PHY354H1, PHY356H1

2. Additional 0.5 credit from PHY 300-level courses/ PHY 400-level courses/ JPE395H1/ JPE493H1, excluding JPH311H1, JPH441H1

Third or Fourth Year: (3.5 credits)

1. PHY424H1

2. 1.0 credit from PHY450H1, PHY452H1, PHY454H1, PHY456H1, PHY460H1

3. PHY405H1/ PHY407H1/ PHY408H1/ PHY426H1/ PHY478H1. See Note 2.

4. 1.0 credit, including at least a 0.5 PHY credit at the 400-level, from PHY 300-level courses/ PHY 400-level courses/ JPE395H1/ JPE493H1, excluding JPH311H1, JPH441H1

5. Ethics and Social Responsibility Requirement: The Physics course JPH441H1 meets this requirement as well as any of the following courses: HPS200H1/ ENV222H1/ ENV333H1/ ESS205H1/ PHL273H1/ VIC172Y1/ AST310H1. See Note 3.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

1. Students are encouraged but not required to enrol in the independent study and project courses such as PHY371Y1, PHY478H1, etc.
2. PHY479Y1 (Undergraduate Research Project) satisfies Requirement 3 in Third or Fourth Year and counts as a 0.5 credit at the PHY 400-level for Requirement 4 in Third or Fourth Year. Students may use MAT351Y1 instead of APM346H1 for Requirement 1 in Third Year.
3. Requirement 5 in Third or Fourth Year represents a 0.5 credit with a significant emphasis on "Ethics and Social Responsibility", in the context of the physical sciences. Students may use the CR/NCR option towards any of the courses listed in Requirement 5. Another Arts & Science course with a significant emphasis on "Ethics and Social Responsibility", in the context of the physical sciences, may be substituted subject to approval from the Associate Chair (Undergraduate Studies).
4. The requirement for an integrative, inquiry-based activity is satisfied by the required course PHY424H1.

Synthetic & Catalytic Chemistry Specialist (Science Program) - ASSPE1377

Consult Professor R. Batey, Department of Chemistry.

This program focuses on the fundamentals and practical aspects of modern synthetic organic and inorganic chemistry, and the understanding and applications of catalytic reactions. Students will become exposed to extensive green chemistry approaches from both experimental and theoretical perspectives. The program provides preparation for career paths as synthetic/discovery chemists, in the pharmaceutical, biotechnology, biomedical, crop protection, materials and related sectors, or for academic research and teaching positions. This program is accredited by the Canadian Society for Chemistry.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- (CHM135H1, CHM136H1) (63% in each)/ CHM151Y1 (63%)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Synthetic & Catalytic Chemistry Specialist in the Summer after Year 2.

Completion Requirements:

(14.0 credits)

First Year: (CHM151Y1 strongly recommended)/ (CHM135H1, CHM136H1); (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1; (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Second and Higher Years:

1. BCH210H1, CHM217H1, (CHM220H1/ CHM222H1, CHM223H1), (CHM236H1, CHM237H1)/ CHM238Y1, (CHM249H1 strongly recommended)/ CHM247H1; MAT235Y1/ MAT237Y1
2. CHM317H1, CHM338H1, CHM342H1, CHM343H1, CHM347H1, CHM348H1
3. CHM432H1, CHM440H1, CHM441H1, CHM443H1
4. CHM395Y1/ CHM499Y1/ PHC489Y1 and/or CHM397H0/ CHM398H0 in areas relevant to the program with prior approval by the Department
5. Additional 300/400-level courses from CHM, which may include courses from among CHM325H1, CHM355H1/ CHM328H1, CHM379H1, CHM416H1, CHM434H1/ CHM455H1, CHM437H1, CHM447H1 and CHM479H1 to a total of 14.0 credits.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Courses Incorporating Data Science

Note: the following lists of courses are not exhaustive, and are chosen to illustrate the wide variety of courses teaching and incorporating data science across different disciplines. Please consult the full course listings for individual departments to find further data science-related courses.

Foundational Data Science Courses

CSC108H1 - Introduction to Computer Programming

Hours: 36L

Programming in a language such as Python. Elementary data types, lists, maps. Program structure: control flow, functions, classes, objects, methods. Algorithms and problem solving. Searching, sorting, and complexity. Unit testing. Floating-point numbers and numerical computation. No prior programming experience required.

NOTE: You may take [CSC148H1](#) after [CSC108H1](#). You may not take [CSC108H1](#) in the same term as, or after taking, any of [CSC110Y1](#)/ [CSC111H1](#)/ [CSC120H1](#)/ [CSC148H1](#).

Exclusion: [CSC110Y1](#), [CSC111H1](#), [CSC120H1](#), [CSC121H1](#), [CSC148H1](#), [CSC108H5](#), [CSC148H5](#), [CSCA08H3](#), [CSCA20H3](#), [CSCA48H3](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

EEB125H1 - Introductory Computation and Data Science for the Life and Physical Sciences

Hours: 24L/12T

Life and physical scientists increasingly use big and complex datasets to answer questions about society and the natural world. In this course, students will develop introductory programming knowledge and data acumen to explore topics drawn from biology, chemistry, physics, and psychology. Students will learn to create and run computer programs, organize ideas using data to communicate clearly to others, break a complex problem into simpler parts, apply general data science principles to specific cases, distinguish causation from correlation and

coincidence, and negotiate tradeoffs between different computational and statistical approaches.

Exclusion: [CSC111H1](#), [CSC148H1](#), [STA130H1](#), [STA238H1](#), [STA248H1](#), [STA261H1](#), [GGR274H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

ENG286H1 - Literature and Data

Hours: 24L/12T

Geared toward the interests and aptitudes of humanities students, this course provides an accessible introduction to computer programming, statistics, and data science, and equips students with the practical and theoretical skills to engage critically with literary data and computation. What new insights about literary form, history, or culture might we glean from a spreadsheet of bestsellers, a database of fan fiction, or an archive containing more novels than any individual could ever read? What gaps exist in literary datasets, and what biases are enshrined in code? No programming or statistical experience required or expected.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Exclusion: [CSC111H1](#), [CSC148H1](#), [STA130H1](#), [STA238H1](#), [STA248H1](#), [STA261H1](#), [GGR274H1](#), [EEB125H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR274H1 - Introductory Computation and Data Science for the Social Sciences

Hours: 24L/12T

Social scientists are increasingly working with big and complex datasets that contain spatial, group-level, and individual-level dimensions to answer questions about society. In this course, students will develop introductory programming knowledge and data acumen in order to create and run computer programs to explore where, when, and why social processes occur, drawing on theories from geography, linguistics, sociology, anthropology, economics, political science, and psychology. Instruction will focus on applying current data analysis libraries, communicating and translating data science methods to both researchers and the public, distinguishing causation from correlation and coincidence, and negotiating tradeoffs between different computational and statistical approaches.

Exclusion: [CSC111H1](#), [CSC148H1](#), [STA130H1](#), [STA238H1](#), [STA248H1](#), [STA261H1](#), [EEB125H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA130H1 - An Introduction to Statistical Reasoning and Data Science

Hours: 24L/24P

This course, intended for students considering a program in Statistical Sciences, discusses the crucial role played by statistical reasoning in solving challenging problems from natural science, social science, technology, health care, and public policy, using a combination of logical thinking, mathematics, computer simulation, and oral and written discussion and analysis.

Corequisite: MAT135H1/ MAT136H1/ MAT137Y1/ MAT157Y1, (CSC108H1/ equivalent programming experience/ CSC110Y1/ CSC148H1 *Note: the corequisite may be completed either concurrently or in advance.

Exclusion: Any of STA220H1/ STA255H1/ STA238H1/ STA248H1/ STA261H1/ ECO220Y1/ ECO227Y1/ STAB22H3/ STA220H5/ STAB57H3/ STA258H5/ STA260H5/ ECO220Y5/ ECO227Y5/ STAA57H3 taken previously or concurrently

Breadth Requirements: The Physical and Mathematical Universes (5)

Data Science in the Humanities

DHU338H1 - Data: Access, Creation, Curation, and Interpretation

Previous Course Number: WDW338H1

Hours: 24L/12P

A central challenge of digital humanities is the complexity of representing interpretive, narrative, and perspective-dependent humanities data through digital tools and environments. Topics include the history of “data” as term and concept; data standards, databases, and linked data; datasets, data curation and analytics, both qualitative and quantitative; and data visualization.

Prerequisite: DHU235H1 and DHU236H1; open to students not taking the Digital Humanities Minor by permission of the program coordinator.

Exclusion: WDW338H1

Breadth Requirements: Creative and Cultural Representations (1)

ENG287H1 - The Digital Text

Hours: 24L/12T

This course explores the stakes and consequences of literature’s transition from printed to digital forms. How do digital and printed texts differ materially, and how does this affect literary form, authorship, consumption, reception — and society more broadly? What new expressive possibilities are present in “born digital” forms like webcomics, fan fiction, interactive fiction, and videogames? How do social media and online reading communities impact the way that literature is marketed and discussed? Will electronic archives make literature more accessible, or less? How do digital texts challenge existing definitions of what counts as “literature”?

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

LIN405H1 - Advanced Quantitative Methods in Linguistics

Hours: 36L

This course introduces advanced statistical modeling techniques using the statistical software R, tailored specifically to the needs of linguistic research.

Prerequisite: LIN305H1

Breadth Requirements: Thought, Belief and Behaviour (2)

NMC268H1 - Data Science Applications in Archaeology

Hours: 12L/12P/12S

Digital technology and the growth of “big data” are transforming not only the ways in which archaeologists present and communicate their research, but also increasingly the ways they collect and analyze data. This course uses underlying concepts from the emerging field of data science and helps students develop hands-on skills in various critical techniques in archaeological data analysis and modelling, focusing on case studies from the Near East.

Prerequisite: 3.0 credits at the 100-level.

Breadth Requirements: Society and its Institutions (3)

Data Science in the Social Sciences

ECO220Y1 - Introduction to Data Analysis and Applied Econometrics

Hours: 48L/48T

Numerical and graphical data description; data collection and sampling; probability; sampling distributions; statistical inference; hypothesis testing and estimation; simple and multiple regression analysis (extensive coverage). Learn how to analyze data and how to correctly interpret and explain results. Use Excel to analyze a wide variety of data and replicate tables and figures in economics research papers.

Prerequisite: (ECO101H1(63%), ECO102H1(63%))/ ECO105Y1(80%)/ ECO100Y5(67%)/ (ECO101H5(63%), ECO102H5(63%))/ (MGEA02H3(67%), MGEA06H3(67%)); MAT133Y1/ (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Exclusion: GGR270H1, PSY201H1, PSY202H1, SOC202H1, SOC252H1, STA220H1, STA221H1, STA248H1, ECO220Y5, MGEB11H3, MGEB12H3

Breadth Requirements: Society and its Institutions (3), The Physical and Mathematical Universes (5)

ECO225H1 - Big-Data Tools for Economists

Hours: 24L/12T

An introduction to the big-data tools—including Machine-Learning techniques—economists increasingly use in applied research. The course explores unstructured data sources such as text files, webpages, social media posts, satellite imagery, and weather data. It offers a practical introduction to creating datasets from these sources (e.g., web scrapping), linking data, and managing and visualizing them (e.g., geospatial visualization).

Prerequisite: (ECO101H1(63%), ECO102H1(63%))/ ECO105Y1(80%)/ ECO100Y5(67%)/ (ECO101H5(63%), ECO102H5(63%))/ (MGEA02H3(67%), MGEA06H3(67%)); MAT133Y1(63%)/ (MAT135H1(60%), MAT136H1(60%))/ MAT137Y1(55%)/ MAT157Y1(55%); CSC108H1/ CSC110Y1/ CSC148H1

Exclusion: CSC311H1, ECO250Y0 (Special Topics Abroad in Economics: Big Data Tools and Machine Learning for Economists) taken in Summer 2023, ESC190H1, JSC270H1, STA314H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ECO424H1 - Topics in Experimental Economics

Hours: 24L/12T

Experimental Economics is a relatively new and very exciting field in economics. While most data used in economics is observational, experimentalists use controlled environments to study various economic issues: from individual decision making, to interaction in games and markets, to asset markets and even macroeconomic issues. In this “hands on” course, students read the background literature in a few areas of current academic research, design and conduct human-subject experiments, ultimately submitting a paper where they draw conclusion from their analysis of real data.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Exclusion: ECO421H1 (Special Topics in Economics: Experimental Economics), taken Fall 2020 and Fall 2022.

Recommended Preparation: ECO316H1/ ECO326H1

Breadth Requirements: Society and its Institutions (3)

ECO482H1 - Machine Learning Applications in Macroeconomic Finance

Hours: 24L/12T

This course introduces students to machine learning concepts and techniques, focusing on applications in macroeconomic finance. In the first part we review supervised and unsupervised machine-learning methods. In the second part, we focus on various questions and topics in macro-finance where the use of machine learning is increasingly common. Hands-on use of these techniques to solve economic problems in macro-finance will prepare students for more advanced machine learning courses.

Prerequisite: CSC108H1/ CSC110Y1/ CSC148H1, ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Exclusion: CSC311H1, STA314H1, ECO481H1 (*Special Topics in Economics with Data Analytics: Macroeconomic Finance with Machine Learning Applications*) taken in Fall 2022 or Winter 2023.

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR272H1 - Geographic Information and Mapping I

Hours: 24L/24P

Introduction to digital mapping and spatial analysis using geographic information systems (GIS). Students learn how to use GIS software to find, edit, analyze and map geographic data to create their own maps, analyze geographic problems and use techniques that can be applied to a variety of subject areas.

Exclusion: [GGRB30H3](#), [GGR278H5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR375H1 - Introduction to Programming in GIS

Hours: 24L

This course will introduce students to the fundamentals of programming, followed by an applied focus on using these skills in geographic information systems. Students will learn how to programmatically edit spatial data, automate common processes, and conduct complex spatial analyses. The course will emphasize open-source software that enriches geospatial data analysis alongside the data processing and analytical capabilities of existing GIS software. Classroom time will be a mix of short lectures and laboratory exercises.

Prerequisite: 8.0 credits including [GGR272H1](#)/[GGR274H1](#)

Exclusion: [GGR386H1](#) (Special Topics in Geographic Information Systems: Programming in GIS), offered in Fall 2019 and Winter 2021

Recommended Preparation: One of [CSC108H1](#)/[GGR273H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR376H1 - Geovisualization

Hours: 24L

Visualizing geographic information forms an important step in aiding visual thinking, generating hypotheses, and communicating findings relating to places. Geovisualization not only involves the display of spatial data through static maps, but also the process of creating 3D, dynamic, or interactive visualizations for data exploration, insights, and analysis. This course will introduce the foundations and capabilities of geovisualization for scientific communication, and

students will learn techniques and tools to develop and critically appraise a range of geovisual outputs.

Prerequisite: 8.0 credits including [GGR272H1](#)/[GGR274H1](#)

Exclusion: [GGR386H1](#) (Special Topic: Geovisualization), offered in Fall 2022

Recommended Preparation: [GGR273H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

Course Experience: University-Based Experience

GGR377H1 - Introduction to Urban Data Analytics

Hours: 24L/12P

This course draws on census and economic data collection, processing, and analysis to teach written and visual storytelling about cities with data and maps, while exploring the uses of real-time data and analytics to solve urban problems. It provides a socio-economic and political context for the use of big data and the smart cities movement, focusing on data ethics and governance.

Prerequisite: 8.0 credits

Recommended Preparation: [GGR270H1](#)/[ECO220Y1](#)/[ECO227Y1](#)/[EEB225H1](#)/[GGR270Y1](#)/[LIN305H1](#)/[POL222H1](#)/[POL242Y1](#)/[PSY201H1](#)/[SOC202H1](#)/[STA220H1](#)/[STA248H1](#)/[STA250H1](#)/[STA261H1](#), [GGR272H1](#), [GGR274H1](#)

Breadth Requirements: Society and its Institutions (3)

GGR472H1 - Developing Web Maps

Hours: 24L

Explores the power of web mapping and CyberGIS, with a focus on hands-on learning and open source software. Students will learn about relevant software (exploring various APIs), data structures, methods, and cartographic and visualization techniques. Finally, students will work in groups to develop and deliver their own online web maps from scratch, on a topic of their choosing.

Prerequisite: 10.0 credits including [GGR272H1](#) and one of [GGR273H1](#) or [GGR274H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR473H1 - Geospatial Big Data

Hours: 24L

Advances in sensing and mobile technologies have contributed to the increasing availability of large volume georeferenced data such as geo-tagged social media content, GPS traces, and crowdsourced maps. While geospatial big data provide a major source for innovation and analysis, challenges relating to data handling, processing, and interpretation have simultaneously arisen. In this course, students will build a critical understanding of the evolution, potential, and biases of geospatial big data. Knowledge of geo-computational techniques to handle geospatial big data and perform meaningful analysis will also be developed and applied.

Prerequisite: 10.0 credits including one of GGR272H1 or GGR274H1

Exclusion: GGR401H1 (Special Topic: *Geospatial Big Data*), offered in Fall 2022

Recommended Preparation: GGR273H1

Breadth Requirements: Society and its Institutions (3)

PCJ260H1 - Introduction to Peace, Conflict and Justice I

Hours: 24L/12S

This course introduces students to reading, interpreting, and communicating data relevant to issues in peace, conflict and justice. Students will develop concrete skills such as understanding data sources in conflict and justice, exploring applications of data, and methods of data collection. They will reflect on how social constructs can be operationalized into variables that can be employed for qualitative and quantitative analysis in research and policy, and learn how to use visualizations and descriptive statistics to support arguments and research. Through this course, students will develop a set of essential skills to work on real-world questions related to issues in peace, conflict and justice, while engaging with existing data and their applied research findings to understand their policy relevance. Students must be enrolled in either the PCJ Major or PCJ Specialist program to take this course.

Prerequisite: 4.0 credits

Breadth Requirements: Society and its Institutions (3)

POL419H1 - Quantitative Methods and Data Analysis

Hours: 24S

Covers advanced level treatment of quantitative empirical research methods in political science. The emphasis is given to theoretical foundations, various research designs, and statistical methods of "causal inference." Students will also be exposed to prominent applications of these methods and learn how to use statistical software to apply these methods in data analysis.

Prerequisite: POL232H1/0.5 credit in STA at the 200+ level

Breadth Requirements: Society and its Institutions (3)

RSM371H1 - Data and Information Management for Business Analytics

Previous Course Number: RSM312H1

Hours: 24L

This course focuses on the fundamentals of data management for the purposes of producing information and supporting advanced techniques of business analytics. This applied learning course will expose the learner to a broad range of technical skills that are required to access, prepare and visualize data for advanced analysis. The course introduces the fundamental skills that form the foundation in the development of advanced business analytics.

Prerequisite: CSC108H1

Exclusion: RSM312H1 (Data and Information Management for Business Analytics), offered in Winter 2020, 2021, 2022, 2023

Recommended Preparation: Python for Business, e.g., <http://apps.rotman.utoronto.ca/RotmanEvents/EventDetails.aspx?eid=27258>

Breadth Requirements: Society and its Institutions (3)

RSM384H1 - Sports Analytics

Hours: 24L

This course applies concepts of analytic management and data analysis to the sports world. The class is intended to deepen the students' ability to apply econometric skills from ECO220Y1. Particular emphasis is given to player management, "on the field" decisions and giving the students the opportunity to do their own analysis while learning frontier techniques. The class will introduce students to some basics of coding and econometric analysis in R. No prior coding experience is required, but basic coding will be necessary and the course provides students with new or deepened skills in that area.

Prerequisite: ECO220Y1/ ECO227Y1/(STA220H1, STA255H1)/(STA237H1, STA238H1)/(STA257H1, STA261H1)

Exclusion: RSM314H1 (Special Topics in Management: Sports Analytics), offered in Winter 2019/Winter 2020/Winter 2021

Breadth Requirements: The Physical and Mathematical Universes (5)

Data Science in the Life Sciences

EEB313H1 - Quantitative Methods in R for Biology

Hours: 24L/24P

The quantitative analysis and management of biological data is crucial in modern life sciences disciplines. Students will develop skills with R as applied to problems in ecology and evolutionary biology to learn reproducible approaches for data management, data manipulation, visualization, modelling, statistical analysis, and simulation for solving biological problems.

Prerequisite: [BIO220H1](#), [EEB225H1](#)/ [STA288H1](#)/ [STA220H1](#)

Exclusion: [STA130H1](#), [PSY305H1](#)

Recommended Preparation: [CSC108H1](#)/ [CSC120H1](#)/ [CSC121H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

PSY305H1 - The Treatment of Psychological Data

Hours: 36L

This course provides a practical yet intensive introduction to the research pipeline, with a focus on research data management and advanced statistical analysis and inference. Students learn how to find, organize, and analyze data sets in a transparent and reproducible way. Students also learn more about statistical inference, focusing on how the design and analysis of data shape the interpretation of results.

Prerequisite: [PSY202H1](#)/ [ECO220Y1](#)/ [SOC252H1](#)/ [STA221H1](#)/ [ECO220Y5](#)/ [PSY202H5](#)/ [STA221H5](#)/ [PSYC08H3](#)/ [STAB27H3](#)/ [STAC32H3](#)

Exclusion: [EEB313H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

PSY474H1 - Computation in Psychology

Hours: 36L

This lecture course surveys computational perspectives on the mind and brain and introduces computational tools for connecting psychological and neural data to theory. Topics may include neural networks, probabilistic models, pattern recognition, and other techniques applicable to

psychological research and general analysis. Basic familiarity with programming is recommended but not required.

Prerequisite: [PSY202H1](#)/ [ECO220Y1](#)/ [SOC252H1](#)/ [STA221H1](#)/ [ECO220Y5](#)/ [PSY202H5](#)/ [STA221H5](#)/ [PSYC08H3](#)/ [STAB27H3](#)/ [STAC32H3](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

Data Science in the Mathematical and Physical Sciences

ENV338H1 - Environmental Research Data and Decision-making

Hours: 24L/12T

Understanding the natural world and human perturbations to it requires data. All data has inherent biases and constraints. In this class we will explore the world of environmental data from the perspective of those interested in affecting positive change. The class will use case studies and current research to explore topics such as: How do environmental scientists design studies or experiments to answer specific questions? How do we characterize the limitations of the data we have and work within these constraints to answer scientific questions and make informed and meaningful decisions?

Prerequisite: Completion of 8.0 credits including [ENV221H1](#)/ [ENV222H1](#) and [ENV223H1](#).

Students who do not meet the prerequisites are encouraged to contact the Undergraduate Associate Director.

Corequisite: None

Exclusion: None

Recommended Preparation: [GGR274H1](#) or [EEB125H1](#) or [ENG286H1](#)

ESS245H1 - Computational Geology

Previous Course Number: ESS345H1

Hours: 24L/1T/30P

A practical introduction to programming. This course will teach an operational knowledge on how to write and execute self written computer programs. Course topics touch upon using a computer without a graphical interface, using an integrated development environment, programming, documenting, debugging, reading and writing data, graphical output, how to navigate existing documentation and internet resources, and last but not least how to effectively ask for help. Students will work

individually and in small groups in an inverted classroom setting on earth science related problem sets. Previous programming experience is not required.

Prerequisite: 1.0 credit from first-year math, or physics courses except MAT193H1, MAT198H1, MAT199H1, PHY196H1, PHY197H1, PHY198H1, PHY199H1

Exclusion: ESS345H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT245H1 - Mathematical Methods in Data Science

Hours: 36L/24P

An introduction to the mathematical methods behind scientific techniques developed for extracting information from large data sets. Elementary probability density functions, conditional expectation, inverse problems, regularization, dimension reduction, gradient methods, singular value decomposition and its applications, stability, diffusion maps. Examples from applications in data science and big data.

Prerequisite: MAT137Y1/ MAT157Y1, MAT223H1/ MAT240H1, MAT224H1/ MAT247H1

Corequisite: MAT237Y1/ MAT257Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY407H1 - Computational Physics

Hours: 12L/36P

This is an introduction to scientific computing in physics. Students will be introduced to computational techniques used in a range of physics research areas. By considering select physics topics, students will learn basic computational methods for function analysis (computing integrals and derivatives; finding roots and extrema), resolution of linear and non-linear equations, eigenvalue problems, Fourier analysis, ODEs, PDEs and Monte Carlo techniques. As the course progresses, students will develop their skills at debugging, solution visualization, computational efficiency and accuracy. The course is based on python and will involve working on a set of computational labs throughout the semester as well as a final project.

Prerequisite: PHY224H1, PHY250H1/ PHY252H1/ PHY254H1/ PHY256H1, MAT235Y1/ MAT237Y1/ MAT257Y1

Corequisite: Any 300/ 400-level lecture course in Physics (PHY/ JPE)

Breadth Requirements: The Physical and Mathematical Universes (5)

Diaspora and Transnational Studies

Faculty List

Professors

K. Clarke, MA, PhD
K. O'Neill, MA, PhD
N. Seidman, MA, PhD
A. Shternshis, MA, PhD

Associate Professor

K. MacDonald, MA, PhD (University of Toronto Scarborough)

Assistant Professors

A. Allen, MA, PhD
A. González Jiménez, MA, PhD
S. Kassamali, MA, PhD
A. Pesarini, MA, PhD
E. Sammons, MA, PhD (CLTA)
P.X. Scanlan, MA, PhD

Introduction

Interdisciplinary program

Where is home? Need it be in one place? Is it always attached to territory? Diaspora and transnational studies examines the historical and contemporary movements of peoples and the complex problems of identity and experience to which these movements give rise as well as the creative possibilities that flow from movement. The program is comparative and interdisciplinary, drawing from the social sciences, history and the arts. Students are required to take a yearlong course that offers an introduction to a broad array of themes and disciplinary methodologies. The program offers a wide selection of additional courses, giving students the opportunity to learn about a range of diasporic communities as well as key debates in the field.

Centre for Diaspora and Transnational Studies
170 St. George Street, room 230
Toronto, ON M5R 2M8
Phone: 416-946-7177
Email: cdts.admin@utoronto.ca
Website: www.cdts.utoronto.ca

Diaspora and Transnational Studies Programs

Diaspora & Transnational Studies Major (Arts Program) - ASMAJ1407

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits, including at least 2.0 credits at the 300+ level)

1. [DTS200Y1](#)
2. [DTS300H1](#)
3. 4.5 credits from Group A and B courses, with at least two credits from each group. Coverage must include at least two diasporic communities or regions, to be identified in consultation with the program advisor.
4. 1.0 DTS credit at the 400-level

Group A: Humanities Courses

[AFR250Y1](#), [AFR351Y1](#), [CAR324H1](#), [CAR325H1](#), [CAR328H1](#), [CAR429H1](#), [CAR428H1](#), [CJS200H1](#), [CJS201H1](#), [CJS220H1](#), [CJS230H1](#), [CJS389H1](#), [CJS401H1](#), [CLT413H1](#), [CLT416H1](#), [CRE350Y1](#), [CSE341H1](#), [CSE449H1](#), [DTS305H1](#), [DTS310H1](#), [DTS311H1](#), [DTS312H1](#), [DTS314H1](#), [DTS410H1](#), [DTS411H1](#), [DTS412H1](#), [DTS413H1](#), [DTS414H1](#), [DTS415H1](#), [DTS416H1](#), [DTS417H1](#), [EAS105H1](#), [EAS247H1](#), [EAS251H1](#), [EAS271H1](#), [EAS289Y1](#), [EAS314H1](#), [EAS315H1](#), [EAS333H1](#), [EAS374H1](#), [EAS420H1](#), [EAS439H1](#), [EAS474H1](#), [EAS484Y1](#), [EAS497H1](#), [ENG270H1](#), [ENG285H1](#), [ENG367H1](#), [ENG368H1](#), [ENG369H1](#), [ENG370Y1](#), [FIN320H1](#), [FRE438H1](#), [FRE332H1](#), [FRE334H1](#), [FRE336H1](#), [GER361H1](#), [GER367H1](#), [HIS106Y1](#), [HIS202H1](#), [HIS208Y1](#), [HIS282Y1](#), [HIS283Y1](#), [HIS291H1](#), [HIS295Y1](#), [HIS303H1](#), [HIS305H1](#), [HIS312H1](#), [HIS330H1](#), [HIS336H1](#), [HIS338H1](#), [HIS346H1](#), [HIS359H1](#), [HIS360H1](#), [HIS361H1](#), [HIS366H1](#), [HIS369H1](#), [JHA384H1](#), [HIS385H1](#), [HIS391Y1](#), [HIS392Y1](#), [HIS402H1](#), [HIS403H1](#), [HIS413H1](#), [HIS415Y1](#), [HIS429H1](#), [HIS433H1](#), [HIS439H1](#), [HIS444H1](#), [HIS445H1](#), [HIS446H1](#), [HIS467H1](#), [HIS472H1](#), [HIS474H1](#), [HIS480H1](#), [HIS494H1](#), [JGI216H1](#), [JGU216H1](#), [ITA233H1](#), [ITA345H1](#), [NMC252H1](#), [NMC351H1](#), [NMC274H1](#), [NMC284H1](#), [NMC370H1](#), [NMC384H1](#), [NMC473H1](#), [NMC475H1](#), [JQR360H1](#), [RLG280Y1](#), [RLG319H1](#), [RLG326H1](#), [RLG341H1](#), [RLG345H1](#), [RLG346H1](#), [RLG386H1](#), [RLG434H1](#), [RLG453H1](#), [SAS114H1](#), [SAS318H1](#), [SLA202H1](#), [SLA222H1](#), [SLA238H1](#), [SLA302H1](#), [SLA303H1](#), [SLA312H1](#), [SLA318H1](#), [SLA325H1](#),

SLA357H1, SLA380H1, SPA258H1, SPA259H1, SPA375H1, SPA385H1, SPA467H1, SPA480H1, SPA488H1, UNI101H1, UNI103H1, WGS369H1, WGS420H1, WGS426H1

Group B: Social Sciences Courses

ANT204H1, ANT318H1, ANT324H1, ANT340H1, ANT341H1, ANT345H1, ANT346H1, ANT347H1, ANT348H1, ANT349H1, ANT351H1, JAL355H1, ANT356H1, ANT358H1, ANT364H1, ANT366H1, ANT370H1, ANT372H1, ANT426H1, ANT427H1, ANT440H1, ANT450H1, ANT452H1, ANT456H1, ANT458H1, ANT460H1, ANT472H1, ANT475H1, ANT477H1, CSE342H1, DTS305H1, DTS310H1, DTS311H1, DTS312H1, DTS314H1, DTS410H1, DTS411H1, DTS412H1, DTS413H1, DTS414H1, DTS415H1, DTS416H1, DTS417H1, ENT391H1, ENT392Y1, GGR112H1, JGI216H1/ JGU216H1, GGR241H1, GGR246H1, GGR320H1, JGE321H1, GGR326H1, GGR336H1, GGR339H1, GGR341H1, GGR342H1, GGR343H1, JGI346H1/ JGU346H1, GGR360H1, GGR363H1, GGR430H1, GGR452H1, GGR457H1, LCT304H1, NUS251H0, NUS252H0, NUS253H0, NUS254H0, NUS255H0, NUS256H0, NUS351Y0, NUS352H0, NUS353H0, JLN327H1, POL201Y1, POL207Y1, POL215Y1, POL224Y1, POL301Y1, POL305Y1, POL324H1, POL345Y1, JPR364H1, JPR374H1, POL409H1, POL413H1, POL417Y1, JPR419H1, POL421H1, POL424H1, POL430Y1, POL442H1, JPF455Y1, POL467H1, POL480H1, SOC210H1, SOC214H1, SOC218H1, SOC220H1, SOC246H1, SOC250Y1, SOC256H1, SOC304H1, SOC311H1, SOC314H1, SOC315H1, SOC355H1, SOC360H1, SOC364H1, SOC367H1, SOC370H1, SOC381H1, SOC382H1, SOC383H1, SOC388H1, SOC465H1, SOC479H1, SOC481H1, SOC484H1, UNI101H1, UNI103H1, VIC183H1, VIC184H1, WGS450H1

Notes:

- Students are responsible for checking the co- and prerequisites for all courses in Groups A and B.
- Effective Fall 2021, courses associated with New College's African Studies, Caribbean Studies, and Critical Studies in Equity and Solidarity programs will have the new "AFR," "CAR," and "CSE" designators respectively. Courses associated with St. Michael's College's Celtic Studies program will have the new "CLT" designator. Courses associated with Victoria College's Creative Expression and Society, and Literature and Critical Theory programs will have the new "CRE" and "LCT" designators respectively.
- Effective Fall 2021, courses associated with the Centre for Entrepreneurship (formerly Impact Centre) will have the new "ENT" designator.

Diaspora & Transnational Studies Minor (Arts Program) - ASMIN1407

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including at least 1.0 credit at the 300+ level)

1. DTS200Y1
2. DTS300H1
3. 2.0 credits from Group A and B courses, with at least 1.0 credit from each group.
4. 0.5 DTS credit at the 400-level

Group A: Humanities Courses

AFR250Y1, AFR351Y1, CAR324H1, CAR325H1, CAR328H1, CAR429H1, CAR428H1, CJS200H1, CJS201H1, CJS220H1, CJS230H1, CJS389H1, CJS401H1, CLT413H1, CLT416H1, CRE350Y1, CSE341H1, CSE449H1, DTS305H1, DTS310H1, DTS311H1, DTS312H1, DTS314H1, DTS410H1, DTS411H1, DTS412H1, DTS413H1, DTS414H1, DTS415H1, DTS416H1, DTS417H1, EAS105H1, EAS247H1, EAS251H1, EAS271H1, EAS289Y1, EAS314H1, EAS315H1, EAS333H1, EAS374H1, EAS420H1, EAS439H1, EAS474H1, EAS484Y1, EAS497H1, ENG270H1, ENG285H1, ENG367H1, ENG368H1, ENG369H1, ENG370Y1, FIN320H1, FRE438H1, FRE332H1, FRE334H1, FRE336H1, GER361H1, GER367H1, HIS106Y1, HIS202H1, HIS208Y1, HIS282Y1, HIS283Y1, HIS291H1, HIS295Y1, HIS303H1, HIS305H1, HIS312H1, HIS330H1, HIS336H1, HIS338H1, HIS346H1, HIS359H1, HIS360H1, HIS361H1, HIS366H1, HIS369H1, JHA384H1, HIS385H1, HIS391Y1, HIS392Y1, HIS402H1, HIS403H1, HIS413H1, HIS415Y1, HIS429H1, HIS433H1, HIS439H1, HIS444H1, HIS445H1, HIS446H1, HIS467H1, HIS472H1, HIS474H1, HIS480H1, HIS494H1, JGI216H1/ JGU216H1, ITA233H1, ITA345H1, NMC252H1, NMC351H1, NMC274H1, NMC284H1, NMC370H1, NMC384H1, NMC473H1, NMC475H1, JQR360H1, RLG280Y1, RLG319H1, RLG326H1, RLG341H1, RLG345H1, RLG346H1, RLG386H1, RLG434H1, RLG453H1, SAS114H1, SAS318H1, SLA202H1, SLA222H1, SLA238H1, SLA302H1, SLA303H1, SLA312H1, SLA318H1, SLA325H1, SLA357H1, SLA380H1, SPA258H1, SPA259H1, SPA375H1, SPA385H1, SPA467H1, SPA480H1, SPA488H1, UNI101H1, UNI103H1, WGS369H1, WGS420H1, WGS426H1

Group B: Social Sciences Courses

ANT204H1, ANT318H1, ANT324H1, ANT340H1, ANT341H1, ANT345H1, ANT346H1, ANT347H1, ANT348H1, ANT349H1, ANT351H1, JAL355H1, ANT356H1, ANT358H1, ANT364H1, ANT366H1, ANT370H1, ANT372H1, ANT426H1, ANT427H1, ANT440H1, ANT450H1, ANT452H1, ANT456H1, ANT458H1, ANT460H1, ANT472H1, ANT475H1, ANT477H1, CSE342H1, DTS305H1, DTS310H1, DTS311H1, DTS312H1, DTS314H1, DTS410H1, DTS411H1, DTS412H1, DTS413H1, DTS414H1, DTS415H1, DTS416H1, DTS417H1, ENT391H1, ENT392Y1, GGR112H1, JGI216H1/ JGU216H1, GGR241H1, GGR246H1, GGR320H1, JGE321H1, GGR326H1, GGR336H1, GGR339H1, GGR341H1, GGR342H1, GGR343H1, JGI346H1/ JGU346H1, GGR360H1, GGR363H1, GGR430H1, GGR452H1, GGR457H1, LCT304H1, NUS251H0, NUS252H0, NUS253H0, NUS254H0, NUS255H0, NUS256H0, NUS351Y0, NUS352H0, NUS353H0, JLN327H1, POL201Y1, POL207Y1, POL215Y1, POL224Y1, POL301Y1, POL305Y1, POL324H1, POL345Y1, JPR364H1, JPR374H1, POL409H1, POL413H1, POL417Y1, JPR419H1, POL421H1, POL424H1, POL430Y1, POL442H1, JPF455Y1, POL467H1, POL480H1, SOC210H1, SOC214H1, SOC218H1, SOC220H1, SOC246H1, SOC250Y1, SOC256H1, SOC304H1, SOC311H1, SOC314H1, SOC315H1, SOC355H1, SOC360H1, SOC364H1, SOC367H1, SOC370H1, SOC381H1, SOC382H1, SOC383H1, SOC388H1, SOC465H1, SOC479H1, SOC481H1, SOC484H1, UNI101H1, UNI103H1, VIC183H1, VIC184H1, WGS450H1

- Students are responsible for checking the co- and prerequisites for all courses in Groups A and B.
- Effective Fall 2021, courses associated with New College's African Studies, Caribbean Studies, and Critical Studies in Equity and Solidarity programs will have the new "AFR," "CAR," and "CSE" designators respectively. Courses associated with St. Michael's College's Celtic Studies program will have the new "CLT" designator. Courses associated with Victoria College's Creative Expression and Society, and Literature and Critical Theory programs will have the new "CRE" and "LCT" designators respectively.
- Effective Fall 2021, courses associated with the Centre for Entrepreneurship (formerly Impact Centre) will have the new "ENT" designator.

Regarding Diaspora and Transnational Studies Courses

University of Toronto Mississauga courses that can be applied to the program

<https://utm.calendar.utoronto.ca/section/Diaspora-and-Transnational-Studies>

Notes:

Diaspora and Transnational Studies Courses

DTS199H1 - Superman and Other Migrants

Hours: 24S

From the 1938 debut of Superman until the spate of recent autobiographical graphic novels by immigrants and children of immigrants, the development of the comic and graphic novel form has been intricately bound up with the diaspora experience. In this course, we will explore the emergence of the superhero from the immigrant experience; trace the depiction of migrants, immigrants and refugees in recent graphic novels; and study visual strategies for representing migration and displacement. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

DTS200Y1 - Introduction to Diaspora and Transnational Studies I

Hours: 48L

What is the relationship between place and belonging, between territory and memory? How have the experiences of migration and dislocation challenged the modern assumption that the nation-state should be the limit of identification? What effect has the emergence of new media of communication had upon the coherence of cultural and political boundaries? All of these questions and many more form part of the subject matter of Diaspora and Transnational Studies. This introductory course ex-amines the historical and contemporary movements of peoples and the complex issues of identity and experience to which these processes give rise as well as the creative possibilities that flow from movement and being moved. The area of study is comparative and interdisciplinary, drawing from the social sciences, history, the arts and humanities. Accordingly, this course provides the background to the subject area from diverse perspectives and introduces students to a range of key debates in the field, with particular attention to questions

of history, globalization, cultural production and the creative imagination.

Exclusion: DTS201H1, DTS202H1

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

DTS300H1 - Qualitative and Quantitative Reasoning

Hours: 24L

Focuses on research design and training in methods from history, geography, anthropology, literary and cultural studies, and other disciplines appropriate to Diaspora and Transnational Studies. Prepares students to undertake primary research required in senior seminars.

Prerequisite: Completion of 9.0 credits

Recommended Preparation: DTS200Y1/ CJS200H1/ CJS201H1

Breadth Requirements: The Physical and Mathematical Universes (5)

DTS305H1 - Special Topics in Diaspora and Transnational Studies

Hours: 24L

An upper level course. Topics of study vary from year to year.

Prerequisite: Completion of 9.0 credits

Recommended Preparation: DTS200Y1

Breadth Requirements: Society and its Institutions (3)

DTS310H1 - Transnational Toronto

Hours: 24L

Toronto is a city increasingly configured through transnational connections and practices. It is a city defined by the scale at which its residents live their lives; a scale that is no longer (if it ever was) parochial, but extends across time and space to connect people and practice across a multitude of locales. Contemporary understandings of Toronto can only be reached through adopting a transnational lens. This course will examine the processes that have produced Toronto as a transnational city over time, including the dynamics of immigration and mobility, experiences of alienation, the global extension of capitalism, and the (re)formation of communities grounded in the complex dynamics of identities produced in a space that is both 'home' and away'. We will also explore the specific practices, and

connections that produce "Toronto" as a space that transcends its physical geographic boundaries and is continually reproduced in and through the flows of people, capital, objects, ideas, - and the many forces that reproduce and reconfigure these flows.

Prerequisite: Completion of 9.0 credits

Recommended Preparation: DTS200Y1

Breadth Requirements: Society and its Institutions (3)

DTS311H1 - Fun in Diaspora

Hours: 24L

From parkour to "Baby Shark" remixes, concepts and practices surrounding fun, entertainment, and pleasure transcend cultural boundaries, reveal the reach of globalization, and help facilitate the maintenance of transnational communities through shared activities. This course will examine these relationships with fun, and we will also assess cases where concepts of fun diverge and clash in intercultural contexts. Additionally, the class will consider the relationship between entertainment practices and politics, marketing, and social movements. Cases examined will include K-pop fandom, bucket challenges, social media memes, and global YouTube phenomena.

Prerequisite: DTS200Y1

Breadth Requirements: Creative and Cultural Representations (1)

DTS312H1 - Exile

Hours: 24S

Historically used to describe both voluntary departure and enforced banishment from a city, today, "Exile" is perhaps most famously associated with both the Jewish and the Palestinian condition. But exile is also a state of being, one that is creative, critical, and full of meaning-making. This class posits "Exile" as a conceptual framework through which to think through the 21st-century condition of migration and diaspora. Through foundational texts and historic case studies, particularly drawn from East Africa, South Asia, and the Middle East, we will consider how exile has been deployed in order to bring together diverse situations under a unifying theory of both individual and collective experience.

Prerequisite: DTS200Y1

Breadth Requirements: Society and its Institutions (3)

DTS314H1 - Citizenship and Multiculturalism

Hours: 24S

This course examines approaches to belonging and distinction that accompany different models of citizenship. What are some historical and recent trends in the intersections of place, custom, and rights? How have governments related social diversity to social justice in theory and in practice? Areas of emphasis will vary, but may include topics such as authenticity and assimilation; ethno-nationalism; immigration and naturalization policy; indigeneity; insurgency; legacies of colonialism; mass media and popular culture; policing and surveillance; racial stratification; transnational markets; and xenophobia.

Prerequisite: DTS200Y1

Breadth Requirements: Society and its Institutions (3)

JQR360H1 - The Canadian Census: Populations, Migrations and Demographics

Hours: 24L/12T

Examines the Canadian population census through the experience of diasporic groups in Canada. Approaches the census as a statistical tool, an historical source and an ideological project of citizenship and nationalism. Uses census data to explore mathematical and statistical concepts and to integrate numerical ways of thinking with qualitative analysis. (Jointly sponsored by African Studies, Diaspora and Transnational Studies, Caribbean Studies, Critical Studies in Equity and Solidarity, and Latin American Studies).

Prerequisite: DTS200Y1/ HIS230H1/ HIS231H1/ LAS200H1/ LAS201H1/ CAR120Y1/ AFR150Y1/ CAR220H1/ CAR221H1/ NEW224Y1/ CAR225H1/ CAR226H1/ CSE240H1/ NEW240Y1

Breadth Requirements: Society and its Institutions (3)

DTS390H1 - Independent Study

A scholarly project chosen by the student, approved by the Department, and supervised by one of its instructors. Consult with the Diaspora and Transnational Studies Program Office for more information. Not eligible for CR/NCR option.

Prerequisite: DTS200Y1

DTS390Y1 - Independent Study

A scholarly project chosen by the student, approved by the Department, and supervised by one of its instructors. Consult with the Diaspora and Transnational Studies Program Office for more information. Not eligible for CR/NCR option.

Prerequisite: DTS200Y1

DTS401H1 - Advanced Topics in Diaspora and Transnationalism

Hours: 24S

An in-depth investigation of topics in Diaspora and Transnationalism. Content in any given year depends on instructor. Refer to the Centre for Diaspora and Transnational Studies website (<https://www.cdts.utoronto.ca/undergraduate/undergraduate-program/current-undergraduate-courses>) for more information.

Prerequisite: 14.0 credits including DTS200Y1

Breadth Requirements: Society and its Institutions (3)

DTS402H1 - Advanced Topics in Diaspora and Transnationalism

Hours: 24S

An in-depth investigation of topics in Diaspora and Transnationalism. Content in any given year depends on instructor. Refer to the Centre for Diaspora and Transnational Studies website (<https://www.cdts.utoronto.ca/undergraduate/undergraduate-program/current-undergraduate-courses>) for more information.

Prerequisite: 14.0 credits including DTS200Y1

Breadth Requirements: Society and its Institutions (3)

DTS403H1 - Advanced Topics in Diaspora and Transnationalism

Hours: 24S

An in-depth investigation of topics in Diaspora and Transnationalism. Content in any given year depends on instructor. Refer to the Centre for Diaspora and Transnational Studies website (<https://www.cdts.utoronto.ca/undergraduate/undergraduate-program/current-undergraduate-courses>) for more information.

Prerequisite: 14.0 credits including DTS200Y1
Breadth Requirements: Society and its Institutions (3)

DTS404H1 - Advanced Topics in Diaspora and Transnationalism

Hours: 24S

An in-depth investigation of topics in Diaspora and Transnationalism. Content in any given year depends on instructor. Refer to the Centre for Diaspora and Transnational Studies website (<https://www.cdts.utoronto.ca/undergraduate/undergraduate-program/current-undergraduate-courses>) for more information.

Prerequisite: 14.0 credits including DTS200Y1/
CJS200H1/ CJS201H1
Breadth Requirements: Society and its Institutions (3)

DTS405H1 - Advanced Topics in Diaspora and Transnationalism

Hours: 24S

An in-depth investigation of topics in Diaspora and Transnationalism. Content in any given year depends on instructor. Refer to the Centre for Diaspora and Transnational Studies website (<https://www.cdts.utoronto.ca/undergraduate/undergraduate-program/current-undergraduate-courses>) for more information.

Prerequisite: 14.0 credits including DTS200Y1
Breadth Requirements: Society and its Institutions (3)

DTS406H1 - Advanced Topics in Diaspora and Transnationalism

Hours: 24S

An in-depth investigation of topics in Diaspora and Transnationalism. Content in any given year depends on instructor. Refer to the Centre for Diaspora and Transnational Studies website (<https://www.cdts.utoronto.ca/undergraduate/undergraduate-program/current-undergraduate-courses>) for more information.

Prerequisite: 14.0 credits including DTS200Y1
Breadth Requirements: Society and its Institutions (3)

DTS410H1 - Diasporic Foodways

Hours: 24S

Food links people across space and time. As it spirals outward from parochial sites of origin to articulate with new sites, actors and scales, it assumes new substance and meaning in new locales. This movement of food gives rise to new 'foodways' to help us to understand the past in terms of temporally connected sites of intense interaction. Food also plays a strong role in shaping translocal identities. As peoples have moved in the world, food has played a central role in (re)defining who they are, reproducing myth and ritual, and bounding diasporic communities. This course seeks to address questions surrounding the dynamics of the food 'we' eat, the ways in which 'we' eat, the meaning 'we' give to eating, and the effect of eating in a transnational world. Recognizing that culinary culture is central to diasporic identifications, the focus is on the place of food in the enduring habits, rituals, and everyday practices that are collectively used to produce and sustain a shared sense of diasporic cultural identity.

Prerequisite: 14.0 credits including DTS200Y1
Breadth Requirements: Society and its Institutions (3)

DTS411H1 - Transnational Justice

Hours: 24S

This course explores the intersection between local conceptions of justice and their transnational and institutional circulations. It interrogates competing meanings of justice and examines the varied practices of actors engaged in justice making domains. From international human rights, to transitional justice and truth and reconciliation, to international legal and traditional justice formulations, the course offers students an opportunity to learn about and critically reflect on the processes and purposes through which justice conceptions are structured, implemented and being contested in the contemporary period. Topics include: theories of transnationalism, transnational justice, social injustice, law and culture, universalism, racism and social inequality.

Prerequisite: 14.0 credits including DTS200Y1
Breadth Requirements: Society and its Institutions (3)

DTS412H1 - The Diasporic Imagination

Hours: 24S

This course focuses on echoes of diasporic and transnational life in artistic work, and on the significance of aesthetic production to the formation of diasporic and

transnational worlds. How have practices, producers, and works of art illuminated the particularities of diasporic life? How do conventions of genre, performance, and tradition shape experiences of borders and crossings? Areas of emphasis will vary but may spotlight particular historical and geographic contexts, and may foreground one or more form, including film, poetry, fiction, music, and dance.

Prerequisite: 14.0 credits including [DTS200Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DTS413H1 - Global Sexualities

Hours: 24S

Sexuality is a complex interplay of desires, attractions, interests, and modes of behavior and has diverse meanings in different societies and cultures. In this course, we will examine the notion of sexuality as well as gender identity and expression from an interdisciplinary perspective that is rooted in ethnography. A cross-cultural study of sexuality and gender identity within global and transnational contexts will provide students with an understanding of how the intersections of culture, community, as well as social and political factors affect individuals' sexual choices and understandings of gender. A particular focus in this course will be experiences of sexuality and gender within diasporic communities.

Prerequisite: 14.0 credits including [DTS200Y1/SDS380H1](#)

Breadth Requirements: Society and its Institutions (3)

DTS414H1 - Money on the Move

Hours: 24S

In the eighteenth and nineteenth centuries, industry and finance matured together, pushing people into motion around the world. The instruments of long-distance trade, like insurance, credit and debt, connected cities and continents in new and sometimes unsettling ways. The free movement of goods and cash was mirrored by restrictions on migration to some parts of the world and by forced or coerced migration to others. This course explores the history of the rise of global capitalism at a human scale, exploring how financialization, industrialization and imperialism overlapped and intertwined, and how the remaking of the world in the image of capital weighed on human lives.

Prerequisite: 14.0 credits including [DTS200Y1](#)

Breadth Requirements: Society and its Institutions (3)

DTS415H1 - Diaspora at Home

Hours: 24S

What is the relationship between diaspora and domesticity? What does it mean to inhabit the position of the stranger not in the public life of the city, but in the private sphere of the household? This course approaches questions of migration, labour, and foreignness through the prism of the home. We consider the international phenomenon of migrant domestic labour and how it shapes social and family relations, both in countries of origin such as the Philippines and Ethiopia, as well as in countries of employment such as Canada and Lebanon. But we also reflect on how migration radically transforms life inside the home, affecting what it means to be a parent, a child, or a partner. In doing so we draw upon diverse representations of "the family", kinship, and intimacy across both the humanities and the social sciences.

Prerequisite: 14.0 credits including [DTS200Y1](#)

Breadth Requirements: Society and its Institutions (3)

DTS416H1 - Wars, Diaspora and Music

Hours: 24S

The course explores how composers, performers, songwriters and audiences made sense of traumatic and violent events that they experienced, such as ethnic conflicts, wars, exile and displacement, through music. We will also look at how government ideologies employ music during wars. The case studies will include stories of Jewish, Palestinian, Afghan, Romani, Korean, Rwandan and other diasporas severely affected by wars and violence.

Prerequisite: 14.0 credits including [DTS200Y1](#)

Breadth Requirements: Society and its Institutions (3)

DTS417H1 - 9 to 5: A Transnational History of the Working Day

Hours: 24S

Work is a central preoccupation in human life and culture, and the working day – measured in daylight, in shifts, or in tasks and 'gigs' – is, for most people, the basic unit of work. A 'day's work' is so ubiquitous that it seems natural – but it is not – the offices, worksites, hourly wages and everyday forms of discipline and surveillance that shape working lives have a history. This course explores the transnational and diasporic histories of working life, from plantations to factories to offices to informal work at the margins of global industrial capitalism.

Prerequisite: 14.0 credits including DTS200Y1

Breadth Requirements: Society and its Institutions (3)

Centre for Drama, Theatre and Performance Studies

Sessional Lecturer III – Long-term

B. Rubess, MFA, PhD

Introduction

The undergraduate program at the Centre for Drama, Theatre, and Performance Studies (CDTPS) offers a unique combination of rich and rigorous scholarship with high standards of practical training. The program provides students with an integrated set of critical and artistic skills through which to engage with broader intellectual, social, and political issues in the Humanities and beyond. Along with courses in theatre and performance theory and history, dramatic literature, dramaturgy, technology, and practice-based lab courses, the Centre offers introductory and advanced studio courses in acting, production, design, directing, and playwriting. The Digital Dramaturgy Lab (squared) (DDL) ² and the newly founded BMO Lab in Creative Research in the Arts, Performance, Emerging Technologies and AI, with their international scope and interdisciplinary approach, present the students with a unique opportunity to develop projects exploring the use of new technologies in the context of the performing arts.

Students graduating from our program have combined majors in the Humanities, Social Sciences, and Sciences, including English, Women and Gender Studies, Cinema Studies, Sexual Diversity Studies, Art History, Classics, Religion, Anthropology, Canadian Studies, Political Science, Psychology, Sociology, Human Biology, Computer Science, and Cognitive Science.

The Centre's undergraduate program has access to two theatres (the Helen Gardiner Phelan Playhouse and Luella Massey Studio Theatre) and a number of performance and rehearsal spaces available to CDTPS students and faculty.

Please note: While some of our courses are open to all students of the University, others are restricted to students in a Drama Specialist, Major or Minor program. Some studio courses (Group B) require an audition, interview, or the submission of a portfolio. While entry into and progress through most of these studio courses require certain prerequisites, the Centre can grant exceptions on a case-by-case basis.

More details, including application [guidelines and deadlines](https://www.cdtps.utoronto.ca/), can be found on our website at: <https://www.cdtps.utoronto.ca/>.

The Centre's Undergraduate Administrative Coordinator, Colleen Osborn, is also available for consultation. For general enquiries or to schedule an appointment call 416-978-8099 or send an email to c.osborn@utoronto.ca.

Faculty List

Director

K. Gallagher, ARCT (Piano), MEd, PhD, FRSC

Associate Director (Graduate)

J. Carter, MA, PhD

Associate Director (Undergraduate)

S. Boye, MA, PhD

Professors

K. Gallagher, ARCT (Piano), MEd, PhD, FRSC

Associate Professors, Tenure Stream

A. Budde, MA, PhD

J. Carter, MA, PhD

T. N. Cesare Schotzko, MA, M Mus, PhD

X. Fan, MA, PhD

B. Freeman, MA, PhD (University of Toronto Scarborough)

J. Gallagher-Ross, MFA, DFA (University of Toronto Mississauga)

T. Trojanowska, MA, PhD

Assistant Professors, Teaching Stream

S. Boye, MA, PhD

D. Eacho, PhD

Assistant Professors, Tenure Stream

E. Leffler, MA, PhD (University of Toronto Scarborough)

S. Lynch, MA, PhD (University of Toronto Mississauga)

I. Nwankwo, MA, PhD

L. Ridley, MA, PhD (University of Toronto Mississauga)

Assistant Professors, Teaching Stream (Continuing Appointment, Part-time)

F. Gagliardi, B.Phil, MFA, PhD

K. Gass, BA

S. Pesic, MFA

D. Sears, MFA

Sessional Lecturer II – Long-term

C. Block, BFA, MFA

L. Cherniak, BA

G. Verdecchia, MA

Drama, Theatre and Performance Studies Programs

Drama Specialist (Arts Program) - ASSPE2148

Admission Requirements:

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol the program.

Please note (below) that while there are no specific course requirements to join the program, completion of the Studio (Group B) requirement will normally require either an audition, a personal interview, or the submission of a portfolio to match students with courses as required. The Centre will, however, work with any student who enrolls in the program to determine the best options for proceeding through and completing the program.

Completion Requirements:

12.0 credits, including 4.0 credits from 300+ level courses, with at least 1.0 credit at the 400-level.

1. [DRM101Y1](#)
2. [DRM220Y1](#)
3. 3.0 credits from Drama, Theatre, and Performance Studies courses (Group A)
4. 2.0 credits from Studio courses (Group B)
5. From Group A, B, C or other DRM: 5.0 credits to make up the total of 12.0 credits

Notes on Group A and B requirements:

- Following completion of [DRM220Y1](#), students are advised to complete at least a 0.5 credit from Group A per academic year until they have completed the required total of 3.0 credits from Group A.
- Students can take a maximum of 3.0 credits from Group B per year.
- Minimum grade requirements apply to some pre-requisite courses ([DRM101Y1](#), [DRM220Y1](#) and second-year foundation courses) to advance through some Studio (Group B) courses.
- Some Studio (Group B) courses will require a separate assessment either through an audition (performance), submission of a portfolio (playwriting), or a personal interview (directing, design and production). For information on the

deadlines for these assessments and the process for applying, please consult the Centre website.

- The Centre is committed to working with any student to consider best options for not only progressing but completing the program. Students are strongly encouraged to reach out to Centre staff for advising on planning their program.

Foundations

[DRM101Y1](#), [DRM220Y1](#)

Group A: Drama, Theatre and Performance Studies

[DRM303H1](#), [DRM320H1](#), [DRM331H1](#), [DRM342H1](#), [DRM360H1](#), [DRM362H1](#), [DRM363H1](#), [DRM366H1](#), [DRM385H1](#), [DRM385Y1](#), [DRM386H1](#), [DRM387H1](#), [DRM388H1](#), [DRM420H1](#), [DRM424H1](#), [DRM431H1](#), [DRM462H1](#), [DRM480H1](#), [DRM480Y1](#), [DRM485H1](#), [DRM485Y1](#), [DRM487H1](#), [DRM488H1](#), [JIA400H1](#)

Group B: Studio

[DRM200Y1](#), [DRM202H1](#), [DRM224H1](#), [DRM228H1](#), [DRM254H1](#), [DRM300Y1](#), [DRM301H1](#), [DRM302H1](#), [DRM311H1](#), [DRM328H1](#), [DRM354H1](#), [DRM355H1](#), [DRM355Y1](#), [DRM368H1](#), [DRM375H1](#), [DRM375Y1](#), [DRM376H1](#), [DRM377H1](#), [DRM378H1](#), [DRM400H1](#), [DRM402H1](#), [DRM403Y1](#), [DRM413H1](#), [DRM428H1](#), [DRM454H1](#), [DRM455H1](#), [DRM485Y1](#), [DRM486H1](#), [CRE276H1](#)

Group C: Related Courses in Other Departments

[CAR321H1](#), [CDN307H1](#), [CDN385H1](#), [CHC367H1](#), [CLA382H1](#), [CLA383H1](#), [CRE273H1](#), [CRE375H1](#), [CRE470H1](#), [DTS412H1](#), [EAS263H1](#), [EAS375H1](#), [ENG220H1](#), [ENG320Y1](#), [ENG330H1](#), [ENG331H1](#), [ENG335H1](#), [ENG337H1](#), [ENG340H1](#), [ENG341H1](#), [ENG352H1](#), [FAH405H1](#), [FIN320H1](#), [FRE319H1](#), [FRE326H1](#), [GRK351H1](#), [GRK352H1](#), [GRK451H1](#), [GRK452H1](#), [INS300Y1](#), [INS302H1](#), [INS341H1](#), [ITA390H1](#), [ITA410H1](#), [LAT351H1](#), [LAT451H1](#), [LCT304H1](#), [MUS206H1](#), [MUS209H1](#), [MUS215H1](#), [MUS315H1](#), [MUS340H1](#), [REN347H1](#), [SDS478H1](#), [SLA342H1](#), [SLA367H1](#), [SLA405H1](#), [SLA406H1](#), [SPA384H1](#), [SPA387H1](#)

Other Topics & Independent Studies

[UNI102H1](#), [UNI106H1](#), [UNI197H1](#), [DRM286H1](#), [DRM288H1](#), [DRM299Y1](#), [DRM390Y1](#), [DRM391H1](#), [DRM399Y1](#), [DRM490Y1](#), [DRM491H1](#)

Drama Major (Arts Program) - ASMAJ2148

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol the program.

Please note (below) that while there are no specific course requirements to join the program, completion of the Studio (Group B) requirement will normally require either an audition, a personal interview, or the submission of a portfolio to match students with courses as required. The Centre will, however, work with any student who enrolls in the program to determine the best options for proceeding through and completing the program.

Completion Requirements:

8.0 credits, including 2.0 credits from 300+ level courses, with at least a 0.5 credit at the 400-level.

1. [DRM101Y1](#)
2. [DRM220Y1](#)
3. 2.0 credits from Drama, Theatre, and Performance Studies courses (Group A)
4. 2.0 credits from Studio courses (Group B)
5. From Group A, B, C or other DRM: 2.0 credits to make up the total of 8.0 credits

Notes on Group A and B requirements:

- Following completion of [DRM220Y1](#), students are advised to complete at least a 0.5 credit from Group A per academic year until they have completed the required total of 2.0 credits from Group A.
- Students can take a maximum of 3.0 credits from Group B per year.
- Minimum grade requirements apply to some pre-requisite courses ([DRM101Y1](#), [DRM220Y1](#) and second-year foundation courses) to advance through some Studio (Group B) courses. Some Studio (Group B) courses will require a separate assessment either through an audition (performance), submission of a portfolio (playwriting), or a personal interview (directing, design and production). For information on the deadlines for these assessments and the process for applying, please consult the Centre website.
- The Centre is committed to working with any student to consider best options for not only progressing but completing the program. Students are strongly encouraged to reach out to Centre staff for advising on planning their program.

Foundations

[DRM101Y1](#), [DRM220Y1](#)

Group A: Drama, Theatre and Performance Studies

[DRM303H1](#), [DRM320H1](#), [DRM331H1](#), [DRM342H1](#), [DRM360H1](#), [DRM362H1](#), [DRM363H1](#), [DRM366H1](#), [DRM385H1](#), [DRM385Y1](#), [DRM386H1](#), [DRM387H1](#), [DRM388H1](#), [DRM420H1](#), [DRM424H1](#), [DRM431H1](#), [DRM462H1](#), [DRM480H1](#), [DRM480Y1](#), [DRM485H1](#), [DRM485Y1](#), [DRM487H1](#), [DRM488H1](#), [JIA400H1](#)

Group B: Studio

[DRM200Y1](#), [DRM202H1](#), [DRM224H1](#), [DRM228H1](#), [DRM254H1](#), [DRM300Y1](#), [DRM301H1](#), [DRM302H1](#), [DRM311H1](#), [DRM328H1](#), [DRM354H1](#), [DRM355H1](#), [DRM355Y1](#), [DRM368H1](#), [DRM375H1](#), [DRM375Y1](#), [DRM376H1](#), [DRM377H1](#), [DRM378H1](#), [DRM400H1](#), [DRM402H1](#), [DRM403Y1](#), [DRM413H1](#), [DRM428H1](#), [DRM454H1](#), [DRM455H1](#), [DRM485Y1](#), [DRM486H1](#), [CRE276H1](#)

Group C: Related Courses in Other Departments

[CAR321H1](#), [CDN307H1](#), [CDN385H1](#), [CHC367H1](#), [CLA382H1](#), [CLA383H1](#), [CRE273H1](#), [CRE375H1](#), [CRE470H1](#), [DTS412H1](#), [EAS263H1](#), [EAS375H1](#), [ENG220H1](#), [ENG320Y1](#), [ENG330H1](#), [ENG331H1](#), [ENG335H1](#), [ENG337H1](#), [ENG340H1](#), [ENG341H1](#), [ENG352H1](#), [FAH405H1](#), [FIN320H1](#), [FRE319H1](#), [FRE326H1](#), [GRK351H1](#), [GRK352H1](#), [GRK451H1](#), [GRK452H1](#), [INS300Y1](#), [INS302H1](#), [INS341H1](#), [ITA390H1](#), [ITA410H1](#), [LAT351H1](#), [LAT451H1](#), [LCT304H1](#), [MUS206H1](#), [MUS209H1](#), [MUS215H1](#), [MUS315H1](#), [MUS340H1](#), [REN347H1](#), [SDS478H1](#), [SLA342H1](#), [SLA367H1](#), [SLA405H1](#), [SLA406H1](#), [SPA384H1](#), [SPA387H1](#)

Other Topics & Independent Studies

[UNI102H1](#), [UNI106H1](#), [UNI197H1](#), [DRM286H1](#), [DRM288H1](#), [DRM299Y1](#), [DRM390Y1](#), [DRM391H1](#), [DRM399Y1](#), [DRM490Y1](#), [DRM491H1](#)

Drama Minor (Arts Program) - ASMIN2148

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Please note that while there are no specific course requirements to join the program, completion of the Studio (Group B) requirement may require an audition, a personal interview, or the submission of a portfolio to match students with courses as required. The Centre will, however, work with any student who enrolls in the program to determine the best options for proceeding through and completing the program.

Completion Requirements:

4.0 credits including at least 1.0 credit at the 300+ level.

1. [DRM101Y1](#)
2. From Group A: 1.0 credit or [DRM220Y1](#)
3. From Group A: 1.0 credit
4. From Groups A, B, C or other DRM (when eligible): 1.0 credit to make up the total of 4.0 credits

Note: Priority is reserved for Drama Majors and Specialists for Group B Studio courses.

Foundations

DRM101Y1, DRM220Y1

Group A: Drama, Theatre and Performance Studies

DRM303H1, DRM320H1, DRM331H1, DRM342H1,
DRM360H1, DRM362H1, DRM363H1, DRM366H1,
DRM385H1, DRM385Y1, DRM386H1, DRM387H1,
DRM388H1, DRM420H1, DRM424H1, DRM431H1,
DRM462H1, DRM480H1, DRM480Y1, DRM485H1,
DRM485Y1, DRM487H1, DRM488H1, JIA400H1

Group B: Studio

DRM200Y1, DRM202H1, DRM224H1, DRM228H1,
DRM254H1, DRM300Y1, DRM301H1, DRM302H1,
DRM311H1, DRM328H1, DRM354H1, DRM355H1,
DRM355Y1, DRM368H1, DRM375H1, DRM375Y1,
DRM376H1, DRM377H1, DRM378H1, DRM400H1,
DRM402H1, DRM403Y1, DRM413H1, DRM428H1,
DRM454H1, DRM455H1, DRM485Y1, DRM486H1,
CRE276H1

Group C: Related Courses in Other Departments

CAR321H1, CDN307H1, CDN385H1, CHC367H1,
CLA382H1, CLA383H1, CRE273H1, CRE375H1,
CRE470H1, DTS412H1, EAS263H1, EAS375H1,
ENG220H1, ENG320Y1, ENG330H1, ENG331H1,
ENG335H1, ENG337H1, ENG340H1, ENG341H1,
ENG352H1, FAH405H1, FIN320H1, FRE319H1,
FRE326H1, GRK351H1, GRK352H1, GRK451H1,
GRK452H1, INS300Y1, INS302H1, INS341H1,
ITA390H1, ITA410H1, LAT351H1, LAT451H1,
LCT304H1, MUS206H1, MUS209H1, MUS215H1,
MUS315H1, MUS340H1, REN347H1, SDS478H1,
SLA342H1, SLA367H1, SLA405H1, SLA406H1,
SPA384H1, SPA387H1

Other Topics & Independent Studies

UNI102H1, UNI106H1, UNI197H1, DRM286H1,
DRM288H1, DRM299Y1, DRM390Y1, DRM391H1,
DRM399Y1, DRM490Y1, DRM491H1

Drama, Theatre and Performance Studies Courses

DRM101Y1 - Introduction to Drama, Theatre and Performance Studies

Hours: 48L/24T

The course introduces students to key concepts and issues in the three related disciplines at the core of our program: drama, theatre, and performance studies. We consider broader questions of performance and performativity in daily life. Engaging critically with theoretical and dramatic texts and live performances, students learn how to think about performance in its cultural, social, historical, aesthetic and political dimensions, and how to acknowledge and navigate their own responsibilities as culture workers situated in specific historical and contemporary contexts. This course combines weekly two-hour lectures with one-hour tutorials.

Exclusion: (DRE121H5, DRE122H5) / (ENG121H5, DRE122H5) / (THRA10H3, THRB20H3) / (THRA10H3, UNI102H1)

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

DRM200Y1 - Performance

Hours: 48T/96P

Emphasis is initially placed on ensemble, non-verbal, and improvisational work. Students proceed to the application of their acquired skills to scripted material. Students may apply in their first or second year of University. The Application Deadline is March 10th for the first round of auditions; August 1st for the second round. Priority is given to Drama Specialists and Majors. See CDTPS Application Guidelines for information on how to apply.

Prerequisite: An audition and interview in April or in August. Newly admitted students can apply for an audition before beginning their first year of studies.

Corequisite: DRM101Y1/ DRM220Y1

Exclusion: (DRS121H5/ DRE201H5, DRS122H5) , (DRS221H5, DRS222H5)

Recommended Preparation: DRM101Y1

Breadth Requirements: Creative and Cultural Representations (1)

DRM202H1 - Directing I

Hours: 36P

A practical introduction to directing theatre and to the different styles, concerns, and goals that guide directors as they pursue their vision. Through lectures, discussions, and practical exercises, students learn how directors prepare for their work by generating ideas, breaking down a text, animating space, and communicating with actors. The majority of the learning takes place during contact time within the class and regular attendance is key. A letter of interest is required. The Application Deadline is March 10th for the first round; August 1st for the second round. Priority is given to Drama Specialists and Majors.

See [CDTPS Application Guidelines](#) for information on how to apply.

Prerequisite: [DRM101Y1](#)

Corequisite: [DRM220Y1](#)

Exclusion: [VPDC02H3](#), [THRD30H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM220Y1 - Comparative Theatre Histories

Hours: 48L/24T

This course will introduce students to major developments in world theatre history through the exploration of a wide range of plays, performances, and practices. In the Fall term our trajectory will go roughly from antiquity to the 16th Century; in the Winter term, from the 16th Century to the present. We will examine material from Africa, America, Asia, Europe, and Oceania, with close attention to the social, religious, historical, aesthetic, and political parameters in which theatre and performance take place. Nurturing ethnically sensitive approaches to world theatre history, this course considers the many ways theatre and performance interact with the globalized world. Students will have an opportunity to participate in collaborative projects and focus on writing for research in the performing arts.

Prerequisite: [DRM101Y1](#)

Exclusion: [THRB20H3](#), [THRB21H3](#)

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

DRM224H1 - Robots, Automata, and Avatars

Hours: 18L/18P

Across centuries and global traditions, theatre has staged imaginations - and real demonstrations - of mechanical humans and other animals. This course introduces students to a wide range of technological performers, from science-fiction drama to drone ballets, from baroque automata to virtual puppeteering. Special attention will be paid to how these figures both construct and dismantle concepts of race, gender, and the human. Hands-on sessions will introduce students to the problems such performers present in the studio. Priority will be given to students in the Drama Specialist and Major.

Prerequisite: [DRM101Y1](#) or 4.0 credits

Corequisite: [DRM101Y1](#) or [DRM220Y1](#)

Recommended Preparation: [DRM101Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM228H1 - Playwriting I

Hours: 36L

A hands-on study of the craft of dramatic writing. The class examines the basic elements of playwriting such as plot, structure, theme, character, dialogue, setting, with an emphasis on story-making. Attention is given to the development of students own work through written assignments and in-class exercises. Priority will be given to students in the Drama Specialist and Major.

Prerequisite: Drama Major, Specialist or Minor; [DRM101Y1](#)

Corequisite: [DRM220Y1](#)

Exclusion: [DRE362H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM254H1 - Design and Production I

Hours: 36L/24T

A practical and theoretical introduction to the fundamentals of theatrical performance design. This course touches on theatre architecture, conceptual approaches to theatrical design and spatial considerations of live performance. Students will work on case studies and practical projects geared toward understanding theatre terminology, design, and production processes. Students will also explore concrete aspects of technical theatre production, particularly as they pertain to theatrical design elements. Priority will be given to students in the Drama Specialist and Major.

Prerequisite: [DRM101Y1](#) or any 4.0 credits

Corequisite: [DRM101Y1](#) or [DRM220Y1](#)

Exclusion: [VPDB03H3](#), [VPDC03H3](#), [THRB50H3](#), [THRC30H3](#)

Recommended Preparation: [DRM101Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM286H1 - Special Topics in Drama, Theatre and Performance Studies

Hours: 36P

An introduction to selected issues in drama, theatre and performance studies.

Special Topics vary for Breadth distribution and Group assignment depending on the course content. Please consult the Undergraduate Drama office and check Special Topics on the website for more details.

Breadth Requirements: Creative and Cultural Representations (1)

DRM288H1 - Introduction to Communication

Previous Course Number: DRM286H1

Hours: 48P

Effective communication is a pivotal skill when public speaking, persuasive discourse, and personal presence are key to success. In this introductory course, students will strengthen and develop confidence in a supportive, playful, highly participatory and collaborative environment. This course is suited to students in professional programs or for those who would like to learn a full range of communication skills. Exploration of language structure, argumentation, grounding, alignment, vocal resonance, clarity and effective listening will be part of each class with an emphasis on enhancing individual potential.

Prerequisite: 4.0 credits

Exclusion: DRM286H1 (Special Topics in Drama: Introduction to Communications) offered in Summer 2013, Summer 2014, Summer 2015, Summer 2016, Summer 2017, Summer 2018, Summer 2019, and Summer 2020.

Breadth Requirements: Creative and Cultural Representations (1)

DRM299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

Prerequisite: Permission from the instructor.

DRM300Y1 - Performance II

Hours: 48T/96P

Building upon the work of DRM200Y1, students concentrate on scene study, styles of acting, and the development of ensemble work with an intensive focus on voice and movement practices. Restricted to students in the Drama Specialist and Major or by permission from the Centre.

NB: To enroll in this course, you will need to complete an online application by March 10th. See CDTPS Application Guidelines for more information.

Prerequisite: Minimum 70% in required courses:

DRM101Y1, DRM200Y1

Corequisite: DRM220Y1 or any course from Group A if DRM220Y1 is complete

Exclusion: (DRS221H5, DRS222H5), (DRS321H5, DRS322H5)

Breadth Requirements: Creative and Cultural Representations (1)

DRM301H1 - Voice and Movement I

Hours: 48P

A practice-based exploration of voice and movement in relation to performance. Through an exploration of the connections between breath, movement, voice, impulse, emotion, space, character and text, students learn to use their voice and body in informed and efficient ways in practice and performance and to develop a wide expressive range. Emphasis is placed on both personal awareness and ensemble work. Taken in conjunction with DRM300Y1: Performance II.

Prerequisite: DRM101Y1 and DRM200Y1

Corequisite: DRM300Y1

Recommended Preparation: DRM220Y1

Breadth Requirements: Creative and Cultural Representations (1)

DRM302H1 - Directing II

Hours: 12T/36P

A continuation of DRM202H1, concentrating on deepening the exploration of what it means to think and work like a director. Through practical exercises and scene study, students learn how to conceptualize a production and how to communicate their vision, as well as deepen their understanding of what is involved in directing actors and collaborating with a production team. Restricted to students in the Drama Specialist and Major or by permission from the Centre (requests can be made once the priority period has opened on Acorn).

Prerequisite: Minimum 70% in required courses:

DRM101Y1 and DRM202H1

Corequisite: DRM220Y1 or any course from Group A.

Recommended Preparation: DRM220Y1 and DRM331H1

Breadth Requirements: Creative and Cultural Representations (1)

DRM303H1 - Theories of Acting

Hours: 36L

A critical survey of the major theorists and practitioners whose writing has influenced the art of the actor, with a focus on Twentieth Century acting and actor training. Students will be introduced to the work of Konstantin Stanislavsky and his American followers (such as Lee Strasberg), Vsevolod Meyerhold, Bertolt Brecht, and Michael Chekhov, among others.

Prerequisite: [DRM101Y1](#) or any 4.0 credits

Exclusion: [VPDB15H3](#)

Recommended Preparation: [DRM220Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM311H1 - Voice and Movement II

Hours: 3T/36P

Building on [DRM301H1](#), students deepen their exploration of vocal and physical practices and techniques. Taken in conjunction with [DRM300Y1](#): Performance II.

Prerequisite: [DRM101Y1](#) and [DRM200Y1](#)

Corequisite: [DRM300Y1](#)

Recommended Preparation: [DRM220Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM320H1 - Concepts of Theatre in the Twentieth and Twenty-first Centuries

Hours: 36L

An exploration of the shifting landscapes of European theatre theory, history and practice in the late 19th century and their repercussions throughout the 20th and 21st centuries. The course focuses on the developments of modern and post-dramatic theatre. It also includes critical analysis of the annual Drama Mainstage production and current Canadian theatre.

Prerequisite: [DRM101Y1](#)

Exclusion: [DRM230Y1](#)

Recommended Preparation: [DRM220Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM328H1 - Playwriting II

Hours: 36L/12T

A continuation of [DRM228H1](#), concentrating on the in-depth knowledge and practice of playwriting with an emphasis on style and technique of writing for the stage. Students develop their own work through written

assignments, in-class exercises, and a final public presentation. Restricted to students in the Drama Specialist and Major or by permission from the Centre.

NB: You will need to complete an online application by March 10th and submit writing samples by April 10th in order to be considered for enrollment in this course. See [CDTPS Application Guidelines](#) for more information.

Prerequisite: Minimum 70% in required courses:

[DRM101Y1](#), [DRM228H1](#), and a portfolio of writing samples due on April 10th.

Corequisite: [DRM220Y1](#) or any course from Group A

Exclusion: [DRE363H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM331H1 - Dramaturgy

Hours: 36L

An introduction to the theory and practice of dramaturgy in its many theatrical manifestations: from preparatory research to script analysis, from new play development to audience dramaturgy.

Prerequisite: [DRM101Y1](#)

Exclusion: [DRE222H5](#), [DRE348H5](#), [DRE360H5](#), [VPDD01H3](#)

Recommended Preparation: [DRM220Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM342H1 - The Contemporary Avant-Garde

Hours: 36L

This class, while exploring significant artistic and sociopolitical developments of the historical avant-garde, will primarily concentrate on the experimental theatre and performance of the past 25 years—a contemporary avant-garde that, as Paige McGinley describes, “hinge[s] on a networked spatiality, rather than on linear teleology” and reflects a growing collective investment on part of audiences and artists alike in the work of a work of art.

Prerequisite: [DRM101Y1](#) or any 4.0 credits

Recommended Preparation: [DRM220Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM354H1 - Design II

Hours: 72P

An intermediate-level investigation of various aspects of theatrical performance design, with a focus on scenic and costume design, though also considering the impact of projections and lighting. Using skills developed through practical study in the Design Studio, the students form the core of the design team for Mainstage production. The course requires active students' participation in a theatre setting, within and outside of regular class time. Restricted to students in the Drama Specialist and Major or by permission from the Centre (requests can be made once the priority period has opened on Acorn).

Prerequisite: Minimum 70% in required courses: DRM101Y1 and DRM254H1.

Corequisite: DRM220Y1 or any course from Group A

Exclusion: DRM354Y1

Breadth Requirements: Creative and Cultural Representations (1)

DRM355H1 - Production II

Hours: 36L/36P

An intermediate-level hands-on investigation of various aspects of theatrical production, including stage management, lighting and sound design, and video design. Using the skills developed in this course, students will form the core of the production team for a number of CDTPS productions. Restricted to students in the Drama Specialist and Major or by permission from the Centre (requests can be made once the priority period has opened on Acorn).

Prerequisite: Minimum 70% in required courses: DRM101Y1 and DRM254H1

Corequisite: DRM220Y1 or any course from Group A

Breadth Requirements: Creative and Cultural Representations (1)

DRM355Y1 - Production II

Hours: 72L/72P

An intermediate-level hands-on investigation of various aspects of theatrical production, including stage management, lighting and sound design, and video design. Using the skills developed in this course, students will form the core of the production team for a number of CDTPS productions. Restricted to students in the Drama Specialist and Major or by permission from the Centre (requests can be made once the priority period has opened on Acorn).

Prerequisite: Minimum 70% in required courses: DRM101Y1 and DRM254H1

Corequisite: DRM220Y1 or any course from Group A

Breadth Requirements: Creative and Cultural Representations (1)

DRM360H1 - Race, Gender and Performance

Hours: 36L

This course will enable students to look at performance in generative new ways by introducing them to theoretical frameworks and critical perspectives from postcolonial theory and queer theory, critical race studies and gender studies. As well as learning to apply these critical tools to works that they are already familiar with, students will be introduced to work in feminist, queer, and anti-racist performance from outside the mainstream.

Prerequisite: DRM101Y1 or any 4.0 credits

Exclusion: DRM387H1 (Special Topics in Drama, Theatre and Performance Studies: Race, Gender & Performance), offered in Summer 2021

Recommended Preparation: DRM220Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

DRM362H1 - Theatre and the World

Hours: 36L

An intercultural, post-colonial and comparative analysis of innovative processes in the national and cross-cultural theatre around the world. Focusing on selected periods and cultures, the course explores the cultural backgrounds of key turning points in pre-modern and modern theatre and their impact on the developments of the post-modern theatre in a globalizing world.

Prerequisite: DRM101Y1 or any 4.0 credits

Recommended Preparation: DRM220Y1/ DRM230Y1

Breadth Requirements: Creative and Cultural Representations (1)

DRM363H1 - Story-ing the Possible: Talking Treaties, Rehearsing (Re)conciliation

Hours: 36L

This half course offers a comprehensive examination of Indigenous history in the territories (now called Canada), Treaty Relationships, and Indigenous-Settler Relationships, as they have shifted and evolved since first contact. Students will enter into conversation with this history and the contemporary issues confronting all Canadians today through the writings of Indigenous

playwrights, oral history keepers, academic historians, and Indigenous theorists.

Prerequisite: [DRM101Y1](#) or any 4.0 credits

Exclusion: [INS201Y1](#)

Breadth Requirements: Society and its Institutions (3)

DRM366H1 - Canadian Theatre

Hours: 36L

Since the 1960s, actors, directors, and writers have been architects of Canadian identity. This course will study the history of Canadian theatre, with an emphasis on how Canadian playwrights and creators have been engaged with social and political issues. A survey of post-colonial theatre, cultural diversity, and gender politics on the Canadian stage.

Prerequisite: [DRM101Y1](#) or any 4.0 credits

Exclusion: [DRE200H5](#), [VPDB13H3](#), [THRB22H3](#)

Recommended Preparation: For Drama Majors and Specialists: [DRM220Y1](#)

Breadth Requirements: Society and its Institutions (3)

DRM368H1 - Devised Theatre

Hours: 36P

An in-depth, hands-on study of devising theatre in a group context. This course offers an intensive exploration of the history and practice of devised theatre within the late 20th and early 21st centuries that will culminate in a number of in-class and public presentations.

Prerequisite: Minimum 70% in required courses: [DRM101Y1](#), [DRM200Y1](#)/ [DRM202H1](#)/ [DRM224H1](#)/ [DRM228H1](#)/ [DRM254H1](#)

Exclusion: [THRB31H3](#)

Recommended Preparation: [DRM220Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM375H1 - Special Topics in Studio Practice

Hours: 36P

A focused, in-depth practice-based examination of specific performance disciplines, styles, and genres, considered within their historical and critical context. Content will vary depending on instructor. Please check Studio Topics under Group B on the [CDTPS undergraduate web page](#) for more details. Priority will be given to students in the Drama Specialist and Major.

Prerequisite: Minimum 70% in required courses:

[DRM101Y1](#), [DRM200Y1](#)/ [DRM202H1](#)/ [DRM224H1](#)/ [DRM228H1](#)/ [DRM254H1](#)

Recommended Preparation: [DRM220Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM375Y1 - Special Topics in Studio Practice

Hours: 72P

A focused, in-depth practice-based examination of specific performance disciplines, styles, and genres, considered within their historical and critical context. Content will vary depending on instructor. Please check Studio Topics under Group B on the [CDTPS undergraduate web page](#) for more details. Priority will be given to students in the Drama Specialist and Major.

Prerequisite: Minimum 70% in required courses:

[DRM101Y1](#), [DRM200Y1](#)/ [DRM202H1](#)/ [DRM224H1](#)/ [DRM228H1](#)/ [DRM254H1](#)

Recommended Preparation: [DRM220Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM376H1 - Special Topics in Studio Practice

Hours: 36P

A focused, in-depth practice-based examination of specific performance disciplines, styles, and genres, considered within their historical and critical context. Content will vary depending on instructor. Please check Studio Topics under Group B on the [CDTPS undergraduate web page](#) for more details. Priority will be given to students in the Drama Specialist and Major.

Prerequisite: Minimum 70% in required courses:

[DRM101Y1](#), [DRM200Y1](#)/ [DRM202H1](#)/ [DRM224H1](#)/ [DRM228H1](#)/ [DRM254H1](#)

Recommended Preparation: [DRM220Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM377H1 - Special Topics in Studio Practice

Hours: 36P

A focused, in-depth practice-based examination of specific performance disciplines, styles, and genres, considered within their historical and critical context. Content will vary

depending on instructor. Please check Studio Topics under Group B on the [CDTPS undergraduate web page](#) for more details. Priority will be given to students in the Drama Specialist and Major.

Prerequisite: [DRM101Y1](#), [DRM200Y1](#)/ [DRM202H1](#)/ [DRM224H1](#)/ [DRM228H1](#)/ [DRM254H1](#)

Recommended Preparation: [DRM220Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM378H1 - Special Topics in Studio Practice

Hours: 36P

A focused, in-depth practice-based examination of specific performance disciplines, styles, and genres, considered within their historical and critical context. Content will vary depending on instructor. Please check Studio Topics under Group B on the [CDTPS undergraduate web page](#) for more details. Priority will be given to students in the Drama Specialist and Major.

Prerequisite: Minimum 70% in required courses: [DRM101Y1](#), [DRM200Y1](#)/ [DRM202H1](#)/ [DRM224H1](#)/ [DRM228H1](#)/ [DRM254H1](#)

Recommended Preparation: [DRM220Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM385H1 - Special Topics in Drama, Theatre and Performance Studies

Hours: 36L

A focused, in-depth examination of specific issues in drama, theatre and performance studies. Special Topics vary for Breadth distribution depending on the course content. Please check Special Topics under Group A on the [CDTPS undergraduate web page](#) for more details.

Prerequisite: [DRM101Y1](#) or any 4.0 credits

Recommended Preparation: [DRM220Y1](#)

DRM385Y1 - Special Topics in Drama, Theatre and Performance Studies

A focused, in-depth examination of specific issues in drama, theatre and performance studies. Special Topics vary for Breadth distribution depending on the course content. . Please check Special Topics under Group A on the [CDTPS undergraduate web page](#) for more details.

Prerequisite: [DRM101Y1](#) or any 4.0 credits

Recommended Preparation: [DRM220Y1](#)

DRM386H1 - Special Topics in Drama, Theatre and Performance Studies

Hours: 36L

A focused, in-depth examination of specific issues in drama, theatre and performance studies. Special Topics vary for Breadth distribution depending on the course content. . Please check Special Topics under Group A on the [CDTPS undergraduate web page](#) for more details.

Prerequisite: [DRM101Y1](#) or any 4.0 credits

Recommended Preparation: [DRM220Y1](#)

DRM387H1 - Special Topics in Drama, Theatre and Performance Studies

Hours: 36L

A focused, in-depth examination of specific issues in drama, theatre and performance studies. Special Topics vary for Breadth distribution depending on the course content. Please check Special Topics under Group A on the [CDTPS undergraduate web page](#) for more details.

Prerequisite: [DRM101Y1](#) or any 4.0 credits

Recommended Preparation: [DRM220Y1](#)

DRM388H1 - Special Topics in Drama, Theatre and Performance Studies

Hours: 36L

A focused, in-depth examination of specific issues in drama, theatre and performance studies. Special Topics vary for Breadth distribution depending on the course content. Please check Special Topics under Group A on the [CDTPS undergraduate web page](#) for more details.

Prerequisite: [DRM101Y1](#) or any 4.0 credits

Recommended Preparation: [DRM220Y1](#)

DRM390Y1 - Independent Studies in Drama, Theatre and Performance Studies

An independent research project at the 300-level, proposed by the student in conversation with a full-time

faculty member who agrees to act as their supervisor for the course. Not eligible for CR/NCR option. Restricted to students in the Drama Specialist and Major. An application and a proposal are required in order to enroll in this course. Please consult the [CDTPS Independent Study Policy](#) for further details.

Prerequisite: 10.0 credits, Specialist or Major in Drama with a minimum of 70% in [DRM220Y1](#), Independent Study Application Form and description of project/syllabus signed by the student and the faculty supervisor, approval of the Centre for Drama, Theatre and Performance Studies (CDTPS). Application deadlines: August 10th for September start date.

DRM391H1 - Independent Studies in Drama, Theatre and Performance Studies

An independent research project at the 300-level, proposed by the student in conversation with a full-time faculty member who agrees to act as their supervisor for the course. Not eligible for CR/NCR option. Restricted to students in the Drama Specialist and Major. An application and a proposal are required in order to enroll in this course. Please consult the [CDTPS Independent Study Policy](#) for further details.

Prerequisite: 10.0 credits, Specialist or Major in Drama with a minimum of 70% in [DRM220Y1](#), Independent Study Application Form and description of project/syllabus signed by the student and the faculty supervisor, approval of the Centre for Drama, Theatre and Performance Studies (CDTPS). Application deadlines: August 10th for September start date; November 10th for January start date.

DRM398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

DRM398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

DRM399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

DRM400H1 - Advanced Performance

Hours: 12T/48P

Advanced Performance builds on the training sequence of [DRM200Y1](#) and [DRM300Y1](#) by developing students' acting and performance skills in devised monologues and extensive collaborative scene work. The work focuses on the particulars of creating a character and the creative aspects of the actor's craft. Ensemble work is a priority and full attendance is required. Restricted to students in the Drama Specialist and Major. A letter of interest is required. The [Application Deadline](#) is March 10th. See [CDTPS Application Guidelines](#) for information on how to apply.

Prerequisite: Minimum 70% in required courses: [DRM220Y1](#), [DRM300Y1](#)

Corequisite: [DRM403Y1](#) or permission of the Centre

Breadth Requirements: Creative and Cultural Representations (1)

JIA400H1 - Interdisciplinary Practice for the Arts

Hours: 72P

While examining the interconnectedness of the arts, students are required to meet between sessions and develop projects connected to their study. These projects involve a range of media, including theatre, film, music and visual art (installation). An application, a proposal, and/or an interview are required in order to be considered for enrollment in this course. Please consult the [CDTPS Application Guidelines](#) for specific procedures and deadlines.

Prerequisite: 14.0 credits and an interview/proposal

Breadth Requirements: Creative and Cultural Representations (1)

DRM402H1 - Advanced Directing

Hours: 36T/36P

A hands-on exploration of advanced directing for the theatre. The class is centered on student-directed projects, which are publicly presented at the end of term. An application, a proposal, and an interview in April are required to be considered for enrollment in this course. Please consult the [CDTPS Application Guidelines](#) for specific procedures and deadlines.

Prerequisite: Specialist or Major in Drama; Minimum 70% in required courses: [DRM220Y1](#), [DRM302H1](#), [DRM331H1](#); a written proposal and an interview in April.

Recommended Preparation: [DRM300Y1](#)/ [DRM328H1](#)/ [DRM354H1](#)/ [DRM355Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM403Y1 - Mainstage Performance

Hours: 72T/144P

This course, taught each year by a different visiting professional theatre director, offers upper-level students the opportunity to explore acting in a full-length production. Plays are selected to challenge students in a variety of different ways, exposing them to a full spectrum of theatre and performance genres and possibilities. Restricted to students in the Drama Specialist and Major. An audition is required. The [Application](#) Deadline is March 10th. See [CDTPS Application Guidelines](#) for information on how to apply.

Prerequisite: Minimum 70% in required courses: [DRM220Y1](#), [DRM300Y1](#), 0.5 credit from [DRM301H1](#)/ [DRM368H1](#)/ [DRM375H1](#)/ [DRM376H1](#)/ [DRM377H1](#)/ [DRM378H1](#)

Corequisite: [DRM400H1](#), [DRM413H1](#)

Exclusion: [DRS425H5](#), [DRS426H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM413H1 - Advanced Voice and Movement

Hours: 12T/48P

This course is a skill-developing companion to [DRM400H1](#) Advanced Performance, and a co-requisite to [DRM403Y1](#) Mainstage Performance. It exposes students to a wide range of voice and movement techniques and explores a heightened use of physicality, voice and speech. Restricted to students in the Drama Specialist and Major taking [DRM403Y1](#).

Prerequisite: Minimum 70% in required courses: [DRM220Y1](#), [DRM300Y1](#), 0.5 credit from [DRM368H1](#)/ [DRM375H1](#)/ [DRM376H1](#)/ [DRM377H1](#)/ [DRM378H1](#)

Corequisite: [DRM403Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM420H1 - Arts and Politics: Bertolt Brecht, Giorgio Strehler, Robert Wilson and Robert Lepage

Previous Course Number: JDC410H1

Hours: 36L

Bertolt Brecht played a specific role in the paradigm shift of the art which began at the end of the 19th century. He advanced this change by trying to connect art to its social and political functions and structure with the positive acceptance of the industrial revolution and by trying to transform it with the help of the new technological media. Restricted to students in the Drama Specialist or Major.

Prerequisite: 9.0 credits including [DRM220Y1](#)

Exclusion: [JDC410H1](#)

Recommended Preparation: [DRM320H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM424H1 - Projects in Digital Performance

Hours: 18P/18S

This course introduces students to independent research-creation in the field of contemporary digital performance. Readings and invited guests will expose students to innovative practices in theatres and online platforms, and outline current political and academic debates around liveness, copyright, and social media. Students will pursue research on a contemporary artist who is integrating the performing arts with computational media, and create a performance piece responding to issues raised by their research.

Prerequisite: 14.0 credits including [DRM220Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

DRM428H1 - Advanced Playwriting

Hours: 12T/36P

A continuation of [DRM328H1](#), concentrating upon the in-depth knowledge and practice of playwriting with an emphasis on advanced style and technique of writing for the stage. Students develop their own longer work through in-class exercises, one major written assignment, and a final public presentation. Restricted to students in the Drama Specialist and Major or by permission from the

Centre. An application and writing samples (due November 10th) are required in order to be considered for enrollment in this course. Please consult the [CDTPS Application Guidelines](#) for information on how to apply.

Prerequisite: Minimum 70% in required courses: [DRM220Y1](#), [DRM328H1](#) and a portfolio of writing samples due November 10th.

Breadth Requirements: Creative and Cultural Representations (1)

DRM431H1 - Advanced Dramaturgy

Hours: 36L

A continuation of [DRM331H1](#) Dramaturgy, deepening the critical exploration of more specific and/or specialized aspects of dramaturgy, such as digital dramaturgy, new media dramaturgy, intercultural and transcultural dramaturgy.

Prerequisite: [DRM220Y1](#) and [DRM331H1](#)
Breadth Requirements: Creative and Cultural Representations (1)

DRM454H1 - Advanced Design

Hours: 36L/36P

An advanced-level exploration of theatrical design skills and techniques, delving deeper into specific areas of specialization and with more opportunity for independent work. Students are expected to participate in Drama Centre productions in senior creative and leadership roles. NB: To enroll in this course, you will need to complete an online application by March 10th. See [CDTPS Application Guidelines](#) for more information.

Prerequisite: Minimum 70% in required courses: [DRM220Y1](#), [DRM354H1](#).
Breadth Requirements: Creative and Cultural Representations (1)

DRM455H1 - Advanced Production

Hours: 36L/36P

An advanced-level exploration of production skills and techniques, delving deeper into specific areas of specialization and with more opportunity for independent work. Students are expected to participate in Drama Centre productions in senior creative and leadership roles. NB: To enroll in this course, you will need to complete an online application by March 10th. See [CDTPS Application Guidelines](#) for more information.

Prerequisite: Minimum 70% in required courses: [DRM220Y1](#), [DRM355H1](#).

Breadth Requirements: Creative and Cultural Representations (1)

DRM462H1 - Black Playwrights: Resistance, Resilience and Transformation

Previous Course Number: DRM488H1

Hours: 18L/18S

An exploration of dramatic literature by writers from the African Diaspora (Canada, USA, UK and the Caribbean) from 1959 to the present. The course will identify playwrights central to the development of Black theatre, their plays, and performance practices. Emphasis will be placed on dramaturgical analysis, sociohistorical context, the author's influences, and relevant critical writing, in order to evaluate these works as sites of social resistance, cultural resilience, and aesthetic transformation. Selected authors include: Lorraine Hansberry, Wole Soyinka, August Wilson, Derek Walcott, Debbie Hunter Green, George Elliott Clarke, Tarell Alvin McCraney, Walter Borden, Suzan-Lori Parks, Kwame Kwei-Armah and Ntozake Shange.

Prerequisite: 14.0 credits including [DRM220Y1](#)

Exclusion: [DRM488H1](#) (Senior Seminar in Drama, Theatre and Performance Studies: Black Playwrights), offered in Fall 2019

Breadth Requirements: Creative and Cultural Representations (1)

DRM480H1 - Internships: Performance and Cultural Arts Organizations

Hours: 49P/21S

In this course students will participate in partnership-based academic internships with performing and cultural arts organizations. With an emphasis on applying academic learning to the community and workplace contexts, students will strengthen their professional skills development and critical reflective practices through their structured engagement with cultural arts organizations across the city. In addition to regular in-class meetings, readings and assignments, students will complete 49 - 55 hours with a cultural arts organization.

Please note that internships will not include performance or performance understudy and will be subject to the availability of partner organizations.

Prerequisite: 14.0 credits, including [DRM220Y1](#) with an application and interview

Breadth Requirements: Creative and Cultural Representations (1)

DRM480Y1 - Internships: Performance and Cultural Arts Organizations

Hours: 98P/42S

In this course students will participate in partnership-based academic internships with performing and cultural arts organizations. With an emphasis on applying academic learning to the community and workplace contexts, students will strengthen their professional skills development and critical reflective practices through their structured engagement with cultural arts organizations across the city. In addition to regular in-class meetings, readings and assignments, students will complete 98-112 hours with a cultural arts organization.

Please note that internships will not include performance or performance understudy and will be subject to the availability of partner organizations.

Prerequisite: 14.0 credits, including [DRM220Y1](#) with an application and interview

Breadth Requirements: Creative and Cultural Representations (1)

DRM485H1 - Senior Seminar in Drama, Theatre and Performance Studies

Hours: 36L

An in-depth examination of selected issues in drama, theatre and performance studies at the 400-level. Special Topics vary for breadth distribution depending on the course content and therefore may be counted towards Groups A or B. Please consult the Undergraduate Drama office or check the [CDTPS undergraduate web page](#) for more details. Restricted to students in the Drama Specialist or Major.

Prerequisite: 14.0 credits, including [DRM220Y1](#) with a minimum of 70% or permission of the Centre

DRM485Y1 - Senior Seminar: Drama, Theatre and Performance Studies Thesis

Hours: 72L

Research thesis, emphasizing topics and methods used in drama, theatre and performance studies. Students must obtain permission from the instructor by submitting a

research project proposal. The project may engage creative practice, but the thesis itself will be a critical, written work engaging the research and dramaturgy involved in the performance or artwork. Not eligible for CR/NCR option. Deadline to apply is March 10. See [online application](#) for details. Restricted to students in the Drama Specialist or Major

Prerequisite: 14.0 credits, including [DRM220Y1](#) with a minimum of 70%, an application and interview

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

DRM486H1 - Senior Seminar in Drama, Theatre and Performance Studies

Hours: 36P

An in-depth examination of selected issues in drama, theatre and performance studies at the 400-level. Special Topics vary for breadth distribution depending on the course content and therefore may be counted towards Groups A or B. Please consult the Undergraduate Drama office or check the [CDTPS undergraduate web page](#) for more details. Restricted to students in the Drama Specialist or Major.

Prerequisite: 14.0 credits, including [DRM220Y1](#) with a minimum of 70% or permission of the Centre

DRM487H1 - Senior Seminar in Drama, Theatre and Performance Studies

Hours: 36L

An in-depth examination of selected issues in drama, theatre and performance studies at the 400-level. Special Topics vary for breadth distribution depending on the course content and therefore may be counted towards Groups A or B. Please consult the Undergraduate Drama office or check the [CDTPS undergraduate web page](#) for more details. Restricted to students in the Drama Specialist or Major.

Prerequisite: 14.0 credits, including [DRM220Y1](#) with a minimum of 70% or permission of the Centre

DRM488H1 - Senior Seminar in Drama, Theatre and Performance Studies

Hours: 36L

An in-depth examination of selected issues in drama, theatre and performance studies at the 400-level. Special

Topics vary for breadth distribution depending on the course content and therefore may be counted towards Groups A or B. Please consult the Undergraduate Drama office or check the [CDTPS undergraduate web page](#) for more details. Restricted to students in the Drama Specialist or Major.

Prerequisite: 14.0 credits, including [DRM220Y1](#)

DRM490Y1 - Independent Studies in Drama, Theatre and Performance Studies

An independent research project at the 400-level, proposed by the student in conversation with a full-time faculty member who agrees to act as their supervisor for the course. Not eligible for CR/NCR option. Restricted to students in the Drama Specialist and Major. An application and a proposal are required in order to enroll in this course. Please consult the [CDTPS Independent Study Policy](#) for further details.

Prerequisite: 14.0 credits, including [DRM220Y1](#) with a minimum of 70%, Specialist or Major in Drama, Independent Study Application Form and description of project/syllabus signed by the student and the faculty supervisor, approval of the Centre for Drama, Theatre and Performance Studies (CDTPS). Application deadline: August 10th for September start date.

DRM491H1 - Independent Studies in Drama, Theatre and Performance Studies

An independent research project at the 400-level, proposed by the student in conversation with a full-time faculty member who agrees to act as their supervisor for the course. Not eligible for CR/NCR option. Restricted to students in the Drama Specialist and Major. An application and a proposal are required in order to enroll in this course. Please consult the [CDTPS Independent Study Policy](#) for further details.

Prerequisite: 14.0 credits, including [DRM220Y1](#) with a minimum of 70%, Specialist or Major in Drama, Independent Study Application Form and description of project/syllabus signed by the student and the faculty supervisor, approval of the Centre for Drama, Theatre and Performance Studies (CDTPS). Application deadlines: August 10th for September start date; November 10th for January start date.

Earth Sciences

Faculty List

Professor and Chair of the Department

S. Finkelstein, M.Phil., PhD

Professor and Associate Chair (Graduate Studies)

M. L. Diamond, MSc, M.Sc.Eng., PhD

Associate Professor, Teaching Stream, and Associate Chair (Undergraduate)

C. Bank, Dipl. Geophys., MSc, PhD

University Professor

B. Sherwood-Lollar, BA, PhD, FRSC

Professors

M. Chazan, M.Phil., PhD

J. R. Desloges (joint appointment with Geography), MSc, PhD, FRSC

M. L. Diamond, MSc, M.Sc. Eng., PhD

M. Dittrich, PhD (U of T Scarborough)

J. Halfar, Dip Geol, PhD (U of T Mississauga)

K.W.F. Howard, MSc, PhD (U of T Scarborough)

Q. Liu, MSc, PhD (joint appointment with Physics)

R. Pysklywec, MSc, PhD

L. Schoenbohm, BSc, PhD (U of T Mississauga)

Associate Professors

B.A. Bergquist, BSc, PhD

J. Bollmann, Dipl. Geol., Sci. Nat. ETH

S. A. Cowling, MSc, PhD

G.S. Henderson, MSc, PhD

M. Laflamme, PhD (U of T Mississauga)

A. Swidinsky, MSc, PhD

U. Wortmann, Dipl. Geo., Dr. Rer. Nat.

Assistant Professors

M.O. Anderson, BSc, MSc, PhD

X. Chu, M.Phil., PhD

R. Correa Rangel, BSc, MSc, PhD

D.D. Gregory, BSc, PhD

P. Heron, MSc, M. Geophys., PhD (U of T Scarborough)

S. Lui, PhD (U of T Mississauga)

C. Kin I Sio, BS, PhD

Assistant Professor, Teaching Stream

T. Santimano, MSc, PhD

Status Only Faculty

M. Head, MSc, PhD (Brock University)

K. Tait, MSc, PhD, ROM

Non-tenure Stream Faculty

N. Bennett, MSc, PhD

M.A. Hamilton, MSc, PhD

S. Kamo, MSc, PhD

Professors Emeriti

G.M. Anderson, B. Eng, MSc, PhD

R. C. Bailey, BSc, PhD

D. Davis, MSc, PhD

N. Eyles, MSc, PhD (U of T Scarborough)

F.G. Ferris, BSc, PhD, FRSC

J. Gittins, MSc, PhD, Sc D (U)

H.C. Halls, MSc, PhD (U of T Mississauga)

A.D. Miall, BSc, PhD, D. Sc., FRSC

B. Milkereit, MSc, PhD

G. Norris, MA, PhD, FRSC (U)

P-Y. F. Robin, MSc, PhD (U of T Mississauga)

D.J. Schulze, MSc, PhD (U of T Mississauga)

W.M. Schwerdtner, Dipl. Geol., Dr. Rer. Nat.

E. T. C. Spooner, MA, PhD (U)

P.H. von Bitter, MA, PhD

J.A. Westgate, BSc, PhD (S)

Introduction

Do you like sciences but have a hard time choosing which one to pursue? Can you picture yourself performing experiments in the lab, or collecting data in the field, or developing and testing models on a computer? Then Earth Sciences is the discipline for you. It is the study of physical, chemical, and biological processes over a wide range of temporal and spatial scales in earth and planetary systems.

Our department offers various programs:

The three specialist programs – Geology, Environmental Geoscience, and Geophysics (offered in collaboration with the Department of Physics) – give students the skills to enter graduate studies and also allow them to become professional “geoscientists in training” after graduation. The Geology specialist program focuses on processes of the solid planetary bodies, including volcanoes, sedimentary environments, mountain building, the formation of minerals or ores, and Earth through time. The Environmental Geosciences specialist program in addition addresses processes related to groundwater and biochemical activities. The Geophysics specialist program allows students to model physical processes in and on Earth and other planets and to apply non-invasive methods of imaging the subsurface, often in 4D (i.e., space and time); targets may range from archaeological investigations to groundwater imaging and mineral exploration, but also include modeling of mountain-building processes and planetary magnetic fields.

The Geoscience Major program builds on a set of core courses and allows students to select elective courses that match their particular interests. Students have paired this program not just with other science programs but

such diverse fields as geography, archaeology, economics, history, political science, or peace and conflict studies.

The Geoscience Minor program provides an introduction to Earth science topics and thinking.

The Earth and Environmental Systems Major program takes a holistic approach to understanding how the Earth system works and how it has evolved over tens to millions and billions of years. This requires understanding the dynamics and interactions of all aspects of the system (solid Earth, ocean, atmosphere, and biosphere) and provides the larger context at a time when climate change, resource consumption and global pollution weigh heavily on people and societies.

Our programs emphasise hands-on lab and field work. At least one field course is required in each program, and several courses have offered optional one-day to two-week long trips. In recent years courses have travelled to Newfoundland, Texas, Arizona, Hawaii, Chile, and New Zealand, and small groups of undergraduates have been involved with field research in Turkey, Peru, Greece and South Africa. These field training opportunities foster the establishment of peer networks, develop team-working skills, afford hands-on learning, and allow for a close collaboration and mentoring experience between individual students and instructors. Students are also encouraged to take advantage of extra and co-curricular opportunities such as study abroad, summer abroad, internships, or working in industry and non-governmental organizations.

More information (including an undergraduate handbook) can be found on the department website www.es.utoronto.ca. Students are encouraged to discuss their plans for program and course selection with the Undergraduate Associate Chair (undergradchair@es.utoronto.ca).

Undergraduate/Graduate Administrator: 22 Ursula Franklin Street, room 1066; 416-978-1240; ugrad@es.utoronto.ca

Earth Sciences Programs

Environmental Geosciences Specialist (Science Program) - ASSPE1253

The Environmental Geosciences specialist program focusses on the interconnectedness within the Earth system (biosphere, hydrosphere, atmosphere, and geosphere) and core environmental geoscience subjects such as earth materials, aqueous geochemistry, hydrogeology, sedimentary geology, geomorphology, and

biogeochemistry. This program aims at preparing students for a variety of careers in industry, government and academia that require knowledge of Earth and Environmental science such as environmental consulting and assessment, water quality, waste management and sustainability.

Jointly sponsored by the School of the Environment and the Department of Earth Sciences. For more information, please contact the Department of Earth Sciences, undergradchair@es.utoronto.ca. Students should note that under the Professional Geoscientists Act of 2000, individuals practicing Environmental Geoscience in Ontario require education that fulfills APGO knowledge requirements (see note below).

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(12.0 credits including at least 1.0 credit from 400-level courses)

1st year required courses (2.0 credits): [CHM151Y1/CHM135H1](#), [CHM136H1](#), [MAT135H1](#), [PHY131H1/PHY151H1](#)

1st year elective courses: 1.0 credit from [MAT136H1](#), [PHY132H1/PHY152H1](#), [ENV237H1/ENV238H1](#), [BIO120H1](#), [CSC108H1/CSC110Y1](#), [ESS245H1/ESS345H1](#), [JEG100H1](#)

2nd year required courses (2.0 credits): [ESS241H1](#), [ESS223H1/ENV233H](#), [ESS262H1](#), [GGR201H1](#)

2nd year elective courses: 1.0 credit from [ESS224H1](#), [ESS261H1](#), [STA220H1/GGR270H1](#), [CHM210H1](#), [MAT221H1/MAT223H1](#); up to 0.5 credit of this requirement can be satisfied by taking one of the following ethics courses: [IMC200H1/INS201Y1/PHL273H1/PHL275H1](#)

3rd and 4th year required courses (2.0 credits): [ESS311H1](#), [ESS312H1](#), [ESS410H1](#), [ESS461H1](#)

3rd and 4th year elective courses: 4.0 credits from [JGA305H1](#), [ESS234H1](#), [ESS313H1](#), [ESS331H1](#), [ESS361H1](#), [ESS362H1](#), [ESS363H1/ESS462H1](#), [GGR315H1](#), [GGR390H1](#), [ENV333H1](#), [ESS431H1](#), [ESS441H1](#), [ESS445H1](#), [ESS450H1](#), [ESS463H1](#), [ESS464H1](#), [ESS465H1](#), [ESS490H1](#), [ESS491H1/ESS492Y1](#)

Other courses which might of interest: [ESS391H1](#), [ESS392Y1](#), [ESS381H1](#), [ESS481H1](#)

If you plan to become APGO certified, we suggest you consider the following courses to fulfill minimum qualifications. This list comprises courses which are required for the specialist as well as suggested courses; together they fulfill groups 1A, 1B, 2A and 2B of the APGO requirements and add up to 13.5 credits:

Group 1A: [CHM135H1](#), [MAT135H1](#), [PHY131H1](#)

Group 1B: [BIO120H1](#), [MAT136H1](#), [CHM136H1](#), [PHY132H1](#), [STA220H1](#), [CSC108H1](#)/ [ESS245H1](#)/ [ESS345H1](#)

Group 2A: [ESS224H1](#), [ESS241H1](#), [ESS234H1](#), [ESS331H1](#)

Group 2B: [ESS223H1](#)/ENV233H, [ESS312H1](#), [GGR201H1](#), [GGR315H1](#), [JGA305H1](#)

Group 2C: 4.5 of 200/300/400 level ESS or other allowable courses

All students, regardless of their career aspirations, are encouraged to talk to the undergraduate chair about their selection of electives.

Geology Specialist (Science Program) - ASSPE0509

This program gives the deepest level of education within the field of geology, preparing students for careers in the energy and mineral resources sectors, as a government-employed geoscientists, in geoscience research and in many other fields where geoscience knowledge is an asset. The program meets the requirements for gaining membership in the Association of Professional Geoscientist of Ontario (APGO) and similar organizations in other Canadian provinces and territories. The Geology Specialist Program focuses on core geology subjects, such as mineralogy and petrology, sedimentology, structural geology, mineral resources, hydrogeology, Earth history and geologic field mapping. Students are advised to be aware of course prerequisites, check clusters of courses listed for the Geology Specialist program, and consult the Earth Sciences Undergraduate Handbook for logical course progressions. For further questions, please consult with the Student Affairs Coordinator (Scott Moore, Department of Earth Sciences, 22 Ursula Franklin St., Earth Sciences Center, Room 1062 email: ugrad@es.utoronto.ca).

Keywords: Geology, Petrology, Energy and Mineral Resources

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(14.0 credits)

Compulsory Foundation Sciences (1.5 credits):

[CHM135H1](#), [MAT135H1](#), [PHY131H1](#)

Additional Foundation Sciences (3.0 credits):

Any 3.0 credits from the following, with no more than 1.0 credit from the same category:

- Biology: [BIO120H1](#), [BIO130H1](#)
- Computer Science: [CSC108H1](#), [CSC148H1](#), [CSC110Y1](#), [ESS245H1](#)/ [ESS345H1](#)
- Chemistry: [CHM136H1](#), [CHM220H1](#), [CHM222H1](#)
- Math: [MAT136H1](#), [MAT221H1](#)
- Physics: [PHY132H1](#)/ [PHY152H1](#)
- Statistics: [STA220H1](#)/ [GGR270H1](#)/ [STA247H1](#)/ [STA257H1](#), [STA248H1](#)/ [STA261H1](#)

Compulsory Foundation Geosciences (3.5 credits):

- Field techniques: [ESS234H1](#)
- Mineralogy and Petrology: [ESS222H1](#)/ [ESS224H1](#)
- Sedimentation and Stratigraphy: [ESS331H1](#)
- Structural Geology: [ESS241H1](#)
- Additionally: [ESS262H1](#), [ESS221H1](#)/ [ESS321H1](#), [ESS324H1](#)

Additional Foundation Geosciences (2.5 credits):

At least 0.5 credit, but no more than 1.0 credit from each subgroup:

- Geochemistry and Geophysics: [ESS223H1](#), [JGA305H1](#)
- Mineralogy and Petrology: [ESS322H1](#), [ESS424H1](#)
- Sedimentology, Glacial Geology, Geomorphology, Remote Sensing: [ESS431H1](#), [GGR201H1](#), [GGR301H1](#), [GGR315H1](#)

Other Geosciences (3.5 credits):

A minimum of 3.5 credits from the following list that have not been used to fulfill the above requirements. At least 1.0 credit needs to be at the 400 level, and no more than 1.5 credits from the 200 level.

- Second-year courses: [ESS223H1](#), [EEB240H1](#), [ESS245H1](#)/ [ESS345H1](#), [ESS261H1](#), [GGR201H1](#), [GGR205H1](#), [GGR206H1](#), [GGR272H1](#), [GGR273H1](#)
- Third-year courses: [ESS311H1](#), [ESS312H1](#), [ESS313H1](#), [ESS324H1](#), [ESS362H1](#), [ESS381H1](#)

ESS391H1, ESS392Y1, GGR301H1, GGR337H1/
GGR315H1, JGA305H1, JPE395H1

- Fourth-year Courses: ESS410H1, ESS423H1,
ESS424H1, ESS425H1, ESS431H1, ESS441H1,
ESS445H1, ESS450H1, ESS461H1, ESS481H1,
ESS490H1, ESS491H1/ ESS492Y1

Notes:

1. Advanced courses, like CHM151Y1, PHY151H1, MAT137Y1 or MAT157Y1, can be used as credits for both foundation sciences sections, meaning, half of the credit will count for Compulsory Foundation Sciences, and the other half will count for Additional Foundation Sciences.
2. You may choose more than 2.5 credits from the Additional Foundation Geosciences list. In that case, the additional courses will count towards the Other Geosciences.
3. You need a minimum of 4.0 credits of 300/400-level courses
4. Students are advised to check the prerequisites of the upper-year courses when deciding on their 2nd and 3rd-year-course selection.
5. Students who do not wish to attain APGO certification are advised to speak to the Associate Chair, Undergraduate Affairs concerning their course selection.

Recommended Course Combinations:

Students interested in Mineral Exploration:

First Year: BIO120H1, CHM135H1, CHM136H1,
MAT135H1, MAT136H1, PHY131H1, PHY132H1

Second year: ESS223H1, ESS224H1 or ESS221H1 and
ESS222H1, ESS234H1, ESS241H1, ESS245H1/
ESS345H1, ESS262H1, STA220H1

Third Year: ESS331H1, ESS321H1, ESS322H1,
JGA305H1, ESS311H1, ESS324H1

Fourth Year: ESS423H1, ESS424H1, ESS431H1,
ESS441H1, ESS461H1, ESS490H1, ESS491H1,
ESS492Y1

Students with an interest in GIS and Geology:

First Year: CHM135H1, CHM136H1, MAT135H1,
PHY131H1, PHY132H1, CSC108H1

Second year: STA220H1, ESS223H1, ESS224H1,
ESS234H1, ESS241H1, ESS262H1, GGR272H1,
GGR273H1, MAT221H1

Third Year: ESS311H1, ESS312H1, ESS321H1,
ESS322H1, ESS331H1, JGA305H1, GGR315H1,
GGR375H1, GGR376H1, ESS324H1

Fourth Year: ESS424H1, ESS431H1, ESS490H1,
ESS491H1, ESS492Y1, GGR415H1, GGR462H1,
GGR472H1, GGR473H1

Geophysics Specialist (Science Program) - ASSPE1650

The Geophysics Specialist program allows students to model physical processes in and on Earth and other planets and to apply noninvasive methods of imaging the subsurface, often in 4D (i.e., space and time). Targets may range from archaeological investigations to groundwater imaging and mineral exploration, but also include modeling of mountain-building processes and the exploration of planetary bodies. Students are advised to be aware of course prerequisites, and consult the Earth Sciences Undergraduate Handbook. For further questions, please consult with the Student Affairs Coordinator (Scott Moore, Department of Earth Sciences, 22 Russell St. Earth Sciences Center, Room 1062 email: ugrad@es.utoronto.ca).

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Consult Departments of Earth Sciences and Physics

(13.5 to 14.0 credits with at least 1.0 credit at the 400-level)

9.0 credits of core courses:

100-level foundation math and physics: PHY131H1/
PHY151H1, PHY132H1/ PHY152H1; (MAT135H1,
MAT136H1)/ MAT137Y1

200-level physics, math, and earth sciences: PHY250H1,
PHY254H1; MAT235Y1/ MAT237Y1; ESS224H1,
ESS241H1

300-level global and near-surface geophysics: JPE395H1;
JGA305H1

400-level advanced geophysics, including field course:
PHY408H1, JPE493H1, ESS452H1; ESS441H1,
ESS445H1, ESS450H1

0.5 to 1.0 credit ethics course chosen from the following list: JPH441H1, ENV333H1, PHL273H1, PHL275H1,
INS201Y1

4.0 to 4.5 additional credits chosen from Groups A, B, and/or C:

Group A -- courses required and relevant for professional registration (APGO):

CHM135H1; ESS245H1/ ESS345H1/ CSC108H1/ CSC110Y1; STA220H1/ GGR270H1; MAT223H1, MAT244H1; APM346H1; ESS331H1

Group B -- emphasis on physics (suitable for graduate school preparation in a physics program):

PHY252H1, PHY350H1, PHY354H1, PHY392H1, PHY454H1

Group C -- other relevant courses from physics, mathematics, or earth sciences:

PHY224H1, MAT224H1, MAT335H1, APM346H1, ESS311H1, ESS312H1, ESS313H1, ESS321H1, ESS322H1, ESS324H1, ESS431H1, ESS234H1/ ESS330H1, ESS410H1, ESS424H1, ESS490H1, ESS491H1/ ESS492Y1, ESS381H1, ESS391H1, ESS392Y1, ESS481H1

Earth and Environmental Systems Major (Science Program) - ASMAJ2745

In the Earth and Environmental Systems Major, students use multidisciplinary approaches to studying the large-scale interactions between the Earth and planetary systems over a broad spectrum of time-scales, addressing deep timescales of millions to billions of years as well as processes taking place in today's and in future worlds. Courses take an integrative approach to understanding interactions between the solid Earth, the biosphere, the atmosphere and the hydrosphere, addressing how these interactions have developed over geological, historical, and recent time periods. Themes of the program include biogeochemistry, paleoclimatology (e.g., drivers of Earth's natural climate variability), global environmental change, Quaternary science (e.g., understanding the ice ages) and Earth surface processes (e.g., evolution of landforms and sedimentary basins). This program provides broad context over time and space to better understand and provide solutions for the current issues of climate change, resource consumption and global pollution weighing heavily on people and societies. Students are advised to check course prerequisites, to review the clusters of courses listed, and to consult the Earth Sciences Undergraduate Handbook for logical course progressions. For further questions, please contact the Student Affairs Coordinator (Scott Moore, Department of Earth Sciences, 22 Ursula Franklin St. Earth Sciences Center, Room 1062 email: ugrad@es.utoronto.ca).

Keywords: Geoscience, Environment, Geology, Earth Sciences, Earth History, Evolution, Chemistry, Physics, Biology

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(8.0 credits including at least 2.0 credits at 300+ level with at least 0.5 credit at 400-level.)

1. 2.0 credits of foundation science courses selected from JEG100H1/ESS102H, BIO120H1/ BIO130H1, CHM135H1/CHM139H, CHM136H1/CHM138H, PHY131H1, PHY132H1, MAT135H1, ENV237H1/ ENV238H1

2. 3.0 credits of ESS core courses:

- 1.0 credit at 200 level chosen from the following courses: ESS262H1 (Earth System Processes), ESS224H1 (Intro to Mineralogy and Petrology), ESS241H1 (Geologic Structures and Maps)
- 1.0 credit at 300 level:
 - Atmosphere-Biosphere Interactions or Biogeography: ESS361H1/ GGR305H1
 - Sedimentation and Stratigraphy or Oceanography: ESS331H1/ ESS362H1
 - Aqueous Geochemistry or Hydrogeology: ESS311H1/ ESS312H1
- 0.5 credit of field courses: ESS410H1 (Field Techniques in Hydrogeochemistry)/ ESS450H1 (Geophysical Field Techniques)/ GGR390H1 (Field Methods)
- 0.5 credit of capstone courses: ESS363H1/ ESS462H1 (Global Biogeochemical Cycles)/ ESS461H1 (Paleoenvironmental Studies)/ ESS464H1 (Biological Perspectives on Earth Systems Evolution)

3. 3.0 credits of elective courses:

In addition to the above core courses, you need to take 3.0 credits of electives. This requirement can be satisfied by any of the Earth Sciences Courses listed in categories A to F below. The following clusters of courses are neither mutually exclusive nor meant to limit choice but intended to show logical course complements. These are not POST requirements; rather the clusters are presented to aid students in course selection according to their interests.

a) Earth Surface Processes

ESS224H1, ESS241H1, ESS245H1/ ESS345H1, JGA305H1, ESS311H1, ESS331H1, ESS445H1, GGR201H1, GGR205H1, GGR272H1

b) Paleoclimate

ESS245H1/ ESS345H1, ESS261H1, ESS331H1, ESS361H1, ESS362H1, ESS461H1, ESS464H1, ESS465H1, EEB240H1/ ENV234H1, GGR305H1

c) Biogeochemistry

ESS223H1/ ENV233H1, ESS245H1/ ESS345H1, ESS311H1, ESS312H1, ESS362H1, ESS363H1/ ESS462H1, ESS410H1

d) Global Environmental Change

ESS245H1/ ESS345H1, JGA305H1, ESS362H1, ESS462H1, ESS463H1, GGR203H1, GGR314H1, PHY392H1

e) Quaternary Science

ESS224H1, ESS245H1/ ESS345H1, JGA305H1, ANT314H1, ANT315H1, ANT409H1, ANT419H1, ESS461H1

f) Other Relevant Courses

ESS261H1, ESS321H1, ESS313H1, ESS322H1, ESS450H1, GGR315H1, ENV337H1, JSC301H1, ESS381H1, ESS398H0/ ESS398Y0, ESS424H1, ESS481H1, ESS490H1, ESS491H1/ ESS492Y1

Environmental Geosciences Minor (Science Program) - ASMIN1253

Enrolment Requirements:

Admission to the Environmental Geosciences Minor has been administratively suspended as of 1 April 2015 and is no longer admitting students. Students presently enrolled in the minor will be able to complete the program requirements as described below.

Completion Requirements:

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

1. CHM136H1 (CHM138H1)
2. ENV233H1; ESS221H1, ESS222H1, ESS311H1, ESS312H1, ESS410H1

Geoscience Major (Science Program) - ASMAJ0509

The study of Earth Sciences integrates principles from physics, chemistry, and biology to illuminate a wide variety of natural phenomena. The major program exposes students to the foundations of the geoscience curriculum (mineralogy, petrology, geological structures and maps, field techniques, Earth evolution, etc.). Careers available are similar to those of the Geoscience Specialist although the Major gives more flexibility to someone wanting to minor or double major in another field. Students are advised to be aware of course prerequisites, check clusters of courses listed for the geoscience major program, and consult the Earth Sciences Undergraduate Handbook for logical course progressions. For further questions, please consult with the Student Affairs Coordinator (Scott Moore, Department of Earth Sciences, 22 Ursula Franklin St., Earth Sciences Center, Room 1062 email: ugrad@es.utoronto.ca).

Keywords: Geology, Paleontology, Earth History, Evolution

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(8.0 credits including at least 2.0 credits at 300+ level with at least 0.5 credit at 400-level.)

2.0 credits chosen from BIO120H1; (CHM135H1, CHM136H1); MAT135H1, MAT136H1, MAT137Y1; PHY131H1, PHY132H1

2.5 credits of core courses: JEG100H1/ ESS102H/ ENV234H1/ ESS262H1, ESS223H1/ ENV233H, ESS224H1/ ESS222H1, ESS241H1, ESS331H1

0.5 credit of field courses chosen from: ESS234H1/ ESS324H1/ ESS410H1/ ESS450H1

3.0 credits chosen from 300/400-level ESS/ JGA/ JPE courses. Note course progressions and prerequisites.

We suggest that students consider the following logical course clusters in their higher years:

- (a) Earth/planetary materials and mineral resources: ESS321H1/ ESS221H1, ESS322H1, ESS323H1, ESS324H1, ESS431H1, ESS423H1, ESS441H1
- (b) Tectonics: JGA305H1, ESS245H1/ ESS345H1/ CSC108H1/ CSC110Y1, ESS321H1, ESS322H1, ESS424H1, ESS441H1, ESS445H1
- (c) Environmental biogeochemistry: ESS261H1, ESS311H1, ESS312H1, ESS410H1, ESS461H1

(d) Geoarchaeology: [ESS261H1](#), [JGA305H1](#), [ESS461H1](#), [ESS450H1](#)

Geoscience Minor (Science Program) - ASMIN0509

The study of Earth Sciences (or “Geology” to use the Greek term) integrates the classical sciences of chemistry, physics and biology, and applies their principles to a diverse range of processes on Earth and other planets, from landform evolution to plate tectonics all the way to the origin and evolution of life and geomicrobiology. The Geoscience Minor program aims to give students as much leeway as possible to choose particular interests within the diverse and dynamic field of Earth Sciences. Students are advised to check course prerequisites, to review the clusters of courses listed for the geoscience major program, and to consult the Earth Sciences Undergraduate Handbook for logical course progressions. For further questions, please contact the Student Affairs Coordinator (Scott Moore, Department of Earth Sciences, 22 Russell St. Earth Sciences Center, Room 1062 email: ugrad@es.utoronto.ca).

Keywords: Geology

Earth Sciences Courses

JEG100H1 - Introduction to Physical Geography and Earth Science

Hours: 24L/12P

This introduction to Physical Geography and Earth Sciences examines the atmosphere, lithosphere, hydrosphere, cryosphere and biosphere, emphasizing processes, flows of energy and materials, and the interconnectedness of these Earth systems. Specific topics include weather and climate, earth materials, geological and geomorphic processes involved in the genesis of landforms, river systems, glaciers, soils, and biomes.

Exclusion: [GGR100H1](#), [ESS102H1](#), [EESA06H3](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS103H1 - Geology in Public Issues

Hours: 24L

Geologic hazards: earthquakes, volcanoes, landslides, tsunamis. The distribution and politics of natural resources, including petroleum and ore deposits. Nuclear

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, with at least 1.0 credit at the 300+ level.)

- 1.0 credit of 100-level CHM, BIO, MAT or PHY courses.
- 2.0 credits of 100- or 200-level ESS courses (excluding [ESS103H1](#), [ESS104H1](#), [ESS105H1](#), and [ESS205H1](#)). It is however recommended to include at least [ESS262H1](#)/[EEB240H1](#)/[JEG100H1](#) and [ESS224H1](#).
- 1.0 credit of 300/400-level ESS/JGA/JPE courses.

Be aware of course prerequisites, check clusters of courses listed for the geoscience major program, and consult the geology undergraduate handbook for logical course progressions.

power and nuclear waste disposal. Global change: the geologic record of hot and cold climates, and how the earth survives. [ESS103H1](#) is primarily intended as a science Distribution Requirement course for Humanities and Social Science.

Exclusion: [GLG103H1](#), [ERS103H5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS104H1 - Controversies in Earth Science

Hours: 24L

The evolution of ideas about the origin and development of the earth from the Athenians to the 20th Century, with attention on the age of earth; on the evolution and disappearance of species; on the origin of oceans, continents and mountains; on climate change; and on the courage of scientists in confronting the religious and political views of their time. [ESS104H1](#) is primarily intended as a science Distribution Requirement course for Humanities and Social Science students. Taught in even years.

Exclusion: [GLG105H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS105H1 - Our home planet

Hours: 24L

The nature and evolution of the Earth; plate tectonics; rocks and minerals; volcanism; geological time; fossils; geology of Ontario; environmental issues; and human interactions with the planet. ESS105H1 is primarily intended as a science Distribution Requirement course for Humanities and Social Science students

Exclusion: GLG110H1, EESA06H3

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS196H1 - Life and Death in the Solar System

Previous Course Number: PMU199H1

Hours: 24L

Earth is the only planet in the solar system known to support life. Through directed readings, seminars, videos and lab visits, participants in this course will work with instructors whose own research tackles important questions concerning the origin of life on earth; the limits to life on this planet; implications for life under extreme conditions elsewhere in the solar system; and the life cycles of the planets themselves. The course will involve reading of scientific literature, student-led discussions, oral presentations and research projects, as well as potential field trips to sites in Southern Ontario. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS197H1 - Earth and Life through Time

Previous Course Number: PMU199H1

Hours: 24L

This seminar will look through the lens of earth history to explore drivers of change in the biosphere and the impacts of these changes. We will focus on episodes of mass extinction, and the spectacular landscape changes and speciation events which often followed. Abrupt or gradual climatic changes, massive volcanism, asteroid impacts, catastrophic carbon releases, and human activity will be evaluated as the causes of major extinction events in Earth history. The course will involve reading of scientific literature, student-led discussions, oral presentations and research projects, as well as potential field trips to sites in Southern Ontario. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS198H1 - Resources and Sustainability

Previous Course Number: PMU199H1

Hours: 24L

The rise of humanity is intricately linked to the exploitation of natural resources. From its earliest attempts to use fire and extract metals from rocks, to coal-fired steam that brought the industrial revolution, hydrocarbons that fuel international travel and trade, nuclear energy to produce electricity, and the reliance on smartphones in our daily lives, the planet's resources have brought innovation and problems and require us to ask questions regarding sustainability. This course will explore the gamut from resource extraction and trading, to its societal consequences including global politics, environmental pollution, and remediation. The course will involve reading of scientific literature, student-led discussions, oral presentations and research projects, and potentially field trips to sites in Southern Ontario. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS199H1 - Earth Science Perspectives on Human Origins

Hours: 24L

Archaeologists and paleontologists depend on earth science to provide the contextual information that is essential to our understanding of human evolution. Among the topics this course will examine are the methods used to determine the age of discoveries, approaches to understanding the environments human ancestors lived in, and how geologists unravel site formation processes. Our discussions will include the role of fire in human evolution, the adaptations of Neanderthals, and the timing of the first appearance of modern humans. The course will be structured around key research localities including Hadar, the Cradle of Humankind, Olduvai Gorge, Wonderwerk Cave, Kebara Cave, Hohlefelds, and Pinnacle Point. The course will involve reading of scientific literature, student-led discussions, oral presentations and research projects. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS205H1 - Confronting Global Change

Hours: 24L/8T

The emergence of society as a major geological force is considered in terms of the evolving debate about the consequences of human activity for the habitability of our planet. Major issues such as climate change, environmental pollution, and depletion of natural resources are examined.

Prerequisite: Completion of at least 4.0 credits

Exclusion: GLG205H1, ERS321H5, EEB208H1

Breadth Requirements: Living Things and Their Environment (4)

ESS223H1 - Introduction to the Geochemistry of Earth Materials

Previous Course Number: ENV233H1

Hours: 24L/24T

This course introduces students to the basic principles of geochemistry beginning with some fundamental chemical concepts concerning atoms, bonding and the periodic table. It continues with an overview of the wide ranging geochemical fields and concepts such as elemental distributions, fractionation and differentiation, and trace element cycling. The latter half of the course leads into an introduction to basic thermodynamics as it applies to more advanced geochemical concepts found in mineralogy and petrology.

Prerequisite: MAT135H1, MAT136H1, CHM135H1

Exclusion: ENV233H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS224H1 - Introduction to Mineralogy and Petrology

Hours: 24L/48P

An introduction to atomic structure, chemistry, physical properties, and geological significance of rock-forming minerals and rocks. Field techniques and core concepts to identify important minerals and rocks in hand specimens and place them into their geological context. The development of practical skills is emphasized.

Prerequisite: JEG100H1/ ESS262H1

Recommended Preparation: CHM135H1, PHY131H1, MAT135H1. For Mineral Engineering students, recommended preparation is MAT186H1 and CHE112H1.

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS234H1 - Introduction to Geological Field Methods

Previous Course Number: ESS330H1

A two-week field course in early May or late August. Students are introduced to field geology and to basic field measurement, mapping and documentation techniques (for example in the Espanola - Manitoulin Island area, west of Sudbury). Students are responsible for the cost of board and lodging and transport to and from the field area. Not eligible for CR/NCR option. Note: Enrollment is handled by the department. For registration deadlines, additional fees associated with the field course, course dates, and special registration requirements, please consult the departmental announcements or inquire with ugrad@es.utoronto.ca. Additional fee of up to \$900 will apply.

Prerequisite: ESS224H1/ ESS222H1, ESS241H1, ESS262H1/ JEG100H1

Exclusion: ESS330H1, GLG340H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS241H1 - Geologic Structures and Maps

Hours: 24L/36P

Field observations, description and classification of geological structures: stratigraphic and intrusive contacts, unconformities; relative age determination; folds and fold systems; faults and fault systems; boudinage, foliations and lineations; spherical projections and mechanical principles (stress, strain, rheology). Practical work focuses on reading geological maps, constructing cross-sections, and interpreting both in terms of geological processes and histories.

Exclusion: GLG345H1, EESC37H3

Recommended Preparation: JEG100H1/ ESS262H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS245H1 - Computational Geology

Previous Course Number: ESS345H1

Hours: 24L/1T/30P

A practical introduction to programming. This course will teach an operational knowledge on how to write and execute self written computer programs. Course topics touch upon using a computer without a graphical

interface, using an integrated development environment, programming, documenting, debugging, reading and writing data, graphical output, how to navigate existing documentation and internet resources, and last but not least how to effectively ask for help. Students will work individually and in small groups in an inverted classroom setting on earth science related problem sets. Previous programming experience is not required.

Prerequisite: 1.0 credit from first-year math, or physics courses except MAT193H1, MAT198H1, MAT199H1, PHY196H1, PHY197H1, PHY198H1, PHY199H1

Exclusion: ESS345H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS261H1 - Earth System Evolution

Hours: 24L/36P

Interrelationships between Earth's atmosphere, hydrosphere, geosphere and biosphere through time; including patterns of evolution and extinction as they are related to changes at the earth's surface and recorded in the rock record. Laboratories cover major groups of fossils, their classification, use in biostratigraphy, and living analogues. NOTE: ESS261H1 and ESS262H1 may be taken in either order; and both are required for advanced courses.

Exclusion: GLG217H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS262H1 - Earth System Processes

Hours: 24L/24P

An introduction to how our planet works, focusing on physical processes that govern the nature and composition of Earth with an emphasis on the dynamic nature of the planet. Topics include surface processes (e.g., weathering and erosion, ocean and atmospheric circulation, weather and climate), crustal processes (e.g., plate tectonics, earthquakes, volcanoes, biogeochemical cycles), and earth-environment interactions (e.g., natural hazards, resource development, and sustainability).

Recommended Preparation: PHY131H1/ CHM138H1/ BIO120H1. For Mineral Engineering students, recommended preparation is MAT186H1 and CHE112H1.

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

JGA305H1 - Environmental and Archaeological Geophysics

Hours: 24L/12P

Application of near-surface geophysical methods to investigate environmental and archaeological sites; in particular magnetometry, resistivity, ground-probing radar, and seismic surveys. Course will cover background on the various methods, and allow students to run field surveys and present on case studies.

Prerequisite: ESS241H1/ ESS262H1/ (ANT200Y1/ ARH100Y1)/ GGR201H1/ PHY224H1/ PHY250H1/ PHY254H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS311H1 - Aqueous Geochemistry

Hours: 24L/24P

An introduction to aqueous environmental geochemistry emphasising the importance of chemical equilibria, mass transport, and microbiological activity in regulating the chemical composition of natural and contaminated systems.

Prerequisite: CHM135H1/ CHM151Y1, MAT135H1

Exclusion: GLG351H1

Recommended Preparation: ESS223H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS312H1 - Hydrogeology

Hours: 24L/24P

Groundwater flow, the role of groundwater in geologic processes, and physical, chemical and biological constraints on contaminant source transport and attenuation.

Prerequisite: ESS311H1

Exclusion: GLG450H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS313H1 - Contaminants, Environment, Geoethics

Hours: 36L

One of humanity's key challenges is growing environmental pollution by a wide range of contaminants entering the environment due to anthropogenic activities, including the mining for critical minerals needed for "green energy". This course explores environmental contamination and solutions to stem contamination, with a focus on mining. Topics covered will include the sources, transport and fate of inorganic and organic contaminants using geochemical, geobiological, and geophysical lenses. Students will investigate the need for mining, remediation and mitigation strategies, and will discuss ethical issues related to activities that lead to contaminant releases and their impact on human and environmental health.

Prerequisite: ESS262H1/ ESS311H1/ JGA305H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS321H1 - Mineralogy

Previous Course Number: ESS221H1

Hours: 24L/36P

Systematic mineralogy (including identification, classification, and description); physical and chemical properties of minerals; crystallography and crystal systems (symmetry, crystal structure, crystal systems); optical techniques in mineral identification.

Prerequisite: ESS224H1, ESS234H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS322H1 - Igneous Petrology

Hours: 24L/36P

An overview of the nature and origin of igneous rocks, with particular emphasis on the interpretation of textures and mineral assemblages as they reflect rock-forming processes. Topics include the physical and chemical properties of magma, origin, and evolution of different magmatic series in specific igneous/tectonic

environments, geochemical and isotopic characteristics of igneous rocks, and the assimilation, fractionation & crystallization processes.

Prerequisite: ESS224H1, ESS321H1/ ESS221H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS324H1 - Advanced Geological Field Methods

Previous Course Number: ESS420H1

A two-week advanced geological mapping project in a challenging field environment. Students learn to compile existing geoscience data, create a geological map and prepare a professional final report on their activities and findings. Not eligible for CR/NCR option. For registration deadlines, additional fees associated with the field course, course dates, and special registration requirements, please consult the departmental announcements or inquire with ugrad@es.utoronto.ca. Additional fee of up to \$900 will apply.

Prerequisite: ESS322H1, ESS234H1/ ESS330H1

Exclusion: ESS420H1, GLG445H1

Recommended Preparation: ESS323H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS331H1 - Sedimentation and Stratigraphy

Hours: 24L/36P

Formal principles of stratigraphy, types of stratigraphic unit, methods of dating and correlation (biostratigraphic methods, magnetostratigraphy, radiometric dating). Methods of study in surface and subsurface (outcrop measurement, elementary introduction to wireline logs, seismic methods). The principles of facies analysis; sediment transport - sedimentary structures, the flow regime, and sediment gravity flows. The carbonate factory and carbonate rock classification. Trace fossils. Laboratory exercises in understanding facies mapping, isopachs and isolith maps.

Prerequisite: ESS224H1

Exclusion: GLG360H1, ERS211H5, ERS313H5

Recommended Preparation: ESS222H1, ESS234H1/ ESS330H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS362H1 - Oceanography

Hours: 24L/24P

An introduction to the physical, geological, chemical, and biological processes governing the world's oceans. The course emphasizes critical thinking, environmental issues, and interrelationships among scientific disciplines.

Prerequisite: Completion of 8.0 credits

Recommended Preparation: 1.0 credit from: PHY131H1/PHY132H1/CHM135H1/CHM136H1/BIO120H1/MAT135H1 and ESS261H1/ESS262H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS363H1 - Global Biogeochemical Cycles

Previous Course Number: ESS462H1

Hours: 36L

Exchange of energy and matter (elements and minerals) between the Earth's atmosphere, ocean, biosphere, and geosphere. Course-related topics include global biogeochemical cycling of carbon, nitrogen, phosphorous, silicon, iron, and zinc (amongst other elements) and will include both terrestrial and marine ecosystems. Examples and case studies will be viewed from the paleo-, contemporary and potential future global change perspectives.

Prerequisite: 8.0 credits including JEG100H1/ESS223H1/ESS262H1/ESS261H1 and 1.0 credit from: PHY131H1/PHY132H1/CHM135H1/CHM136H1/MAT135H1/MAT136H1

Exclusion: ESS462H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS381H1 - Special Topics in Earth Science

Hours: 24L/24P

A survey of current thinking in Earth science. Topics may include isotope geochemistry, ore genesis, or planetary remote sensing.

Prerequisite: minimum of 1.0 credits in ESS at the 200+level

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS391H1 - Directed Studies

An individual study program chosen by the student with the advice, and under the supervision, of a faculty member. Such work may involve obtaining data in the field or lab and analyzing it, an interdisciplinary research project, and supervised readings. Not eligible for CR/NCR option.

Prerequisite: Enrolment in an Earth Science program of study, completion of at least 1.0 credit of 200-level ESS courses.

Exclusion: GLG371H1

ESS392Y1 - Directed Studies

An individual study program chosen by the student with the advice, and under the supervision, of a faculty member. Such work may involve obtaining data in the field or lab and analyzing it, an interdisciplinary research project, and supervised readings. Not eligible for CR/NCR option.

Prerequisite: Enrolment in an Earth Sciences Program of Study; completion of at least 1.0 credit of 200-level ESS courses.

Exclusion: GLG372Y1

JPE395H1 - Physics of the Earth

Hours: 24L

Designed for students interested in the physics of the Earth and the planets. Study of the Earth as a unified dynamic system; determination of major internal divisions in the planet; development and evolution of the Earth's large scale surface features through plate tectonics; the age and thermal history of the planet; Earth's gravitational field and the concept of isostasy; mantle rheology and convection; Earth tides; geodetic measurement techniques, in particular modern space-based techniques.

Prerequisite: PHY132H1/PHY152H1/PHY180H1/MIE100H1/MAT235Y1/MAT237Y1/MAT291H1/AER210H1/PHY254H1/PHY293H1/MAT244H1/MAT267H1/MAT290H1/MAT292H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research>

-opportunities/research-excursions-program. Not eligible for CR/NCR option.

ESS398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

Exclusion: GLG399Y0

ESS410H1 - Field Techniques in Hydrogeochemistry

A ten-day field course in late summer at the Deep River field site designed to familiarize students in a variety of hydrogeological and biogeochemical field techniques; includes a mixture of lecture, laboratory and field exercises. Not eligible for CR/NCR option. Note: Enrollment is handled by the department. For registration deadlines, additional fees associated with the field course, course dates, and special registration requirements, please consult the departmental announcements or inquire with ugrad@es.utoronto.ca. Additional fee of up to \$900 will apply.

Prerequisite: ESS311H1, ESS312H1

Exclusion: GLG448H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS423H1 - Mineral Deposits

Hours: 24L/36P

This course investigates the geochemistry, geology, and mineralogy of mineral systems. Practical skills that will be developed include identification of ore and gangue minerals in hand and polished sections as well as understanding ore systems from source to the deposit. This will be of interest to students interested in a career in mineral exploration and mining as it will lead to an increased understanding of mineral systems, skills used in mineral exploration, and how to use these to find mineral deposits. Additionally, it will be of interest to students interested in environmental science as it will teach identification of ore minerals and associated minerals that are important for assessing and developing remediation techniques for acid mine drainage sites. Finally, it will be of interest to students interested in geochemistry as we will investigate high temperature reactions between fluids and wallrocks.

Prerequisite: ESS322H1/ ESS323H1

Exclusion: GLG442H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS424H1 - Metamorphic Petrology

Previous Course Number: ESS323H1

Hours: 24L/36P

This course provides a basic understanding of the formative processes of metamorphic rocks through quantitative applications of simple thermodynamic and kinetic principles. Topics include processes of heat and mass transport in orogenic belts, fluid-rock interaction in metasomatic systems, pressure-temperature-time paths of metamorphic rocks, temporospatial patterns of metamorphism through geologic time, and metamorphism in extreme conditions.

Prerequisite: ESS222H1/ ESS224H1, ESS221H1/ ESS321H1

Exclusion: ESS323H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS425H1 - Advanced Methods in the Geosciences

Hours: 24L/36P

Theory and operation of current analytical techniques applicable to geological and environmental analysis. In each lab, students receive instruction from an experienced analyst and acquire hands-on experience using state-of-the-art analytical equipment. Techniques covered include X-ray Fluorescence, X-ray Diffraction, Electron Probe Microanalysis, Scanning Electron Microscopy, Ion Chromatography, Atomic Absorption spectrometry, Inductively Coupled Plasma Mass Spectrometry, and Raman spectroscopy.

Prerequisite: 10.0 credits, of which 2.0 credits must be 300+ level ESS courses

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS431H1 - Basin Analysis

Previous Course Number: ESS332H1

Hours: 24L/36P

Detailed study of each of the major sedimentary environments. Typical facies assemblages, cyclic sedimentation. Autogenic and allogenic processes. The

principles of sequence stratigraphy. The history of the sequence concept; systems tracts and bounding surfaces. Sequence models. What causes sequences: mechanisms of change in base level and accommodation: – tectonism, climate change, eustatic sea-level change.

Prerequisite: ESS331H1

Exclusion: GLG430H1, ESS332H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS441H1 - Advanced Structural Geology

Hours: 24L/24P

Principles of geological mechanics: stress, strain, rheology. Faulting, folding and development of tectonic foliations and lineations. Structural analysis of fractures, folds and tectonites.

Prerequisite: ESS234H1, ESS241H1

Recommended Preparation: ESS321H1, ESS322H1, ESS323H1, ESS331H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS445H1 - Global Tectonics

Hours: 24L/24P

Exploration of physical Earth processes and their relationship to large-scale geological phenomena. Mantle convection as plate tectonic engine; intraplate/plate boundary lithospheric deformation including orogenesis and crustal subsidence. Focus on reconciling geodynamic theory/modelling with geological/geophysical observations.

Exclusion: GLG465H1

Recommended Preparation: ESS322H1, ESS332H1 & ESS441H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS450H1 - Geophysical Field Techniques

A ten-day field course in late August at the Deep River field site. Students get hands-on experience using geophysical instrumentation, applying various data collection techniques, and performing data analysis in gravity, magnetic, seismic, electrical, electromagnetic, and radar surveys. Not eligible for CR/NCR option. Note: Enrollment is handled by the department. For registration

deadlines, additional fees associated with the field course, course dates, and special registration requirements, please consult the departmental announcements or inquire with ugrad@es.utoronto.ca. Additional fee of up to \$900 will apply.

Recommended Preparation: JGA305H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS452H1 - Geophysical Imaging with Non-seismic Methods

Hours: 24L

Current geophysical surface and borehole methodologies (gravity, magnetics, electrical, electromagnetic, nuclear) and their theoretical basis for investigating Earth's interior to depths ranging from several metres to tens of kilometers.

Prerequisite: MAT136H1, ESS245H1, JGA305H1

Exclusion: PHY494H1

Recommended Preparation: ESS345H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS461H1 - Palaeoenvironmental Studies

Hours: 24L/24P

The use of proxy data (terrestrial and aquatic microfossils) to infer past environmental conditions. The nature and extent of Quaternary environmental change is considered in the context of assessing current issues such as acidification, metal pollution, eutrophication and global climate change. Palaeoenvironmental techniques are applied in the laboratory.

Prerequisite: ESS261H1

Exclusion: GLG436H1

Recommended Preparation: ESS362H1, ENV233H1

Breadth Requirements: Living Things and Their Environment (4)

ESS464H1 - Biological Perspectives on Earth System Evolution

Hours: 24L

A seminar course focussing on ways that the Earth's biosphere (terrestrial and marine) has altered the overall functioning of the Earth System over geological time,

including (1) influence of terrestrial vegetation on surface processes such as palaeosol development, river geomorphology, erosion, and cycling of major biogeochemical nutrients on land, (2) influence of the marine biosphere on the concentration of O₂ and CO₂ in the atmosphere, including the origin of the stratospheric ozone layer, and (3) the interactive influence of the terrestrial and marine biosphere on atmospheric moisture transport, production of latent relative to sensible heat fluxes, and the development of the planetary boundary layer. Offered in alternate years.

Prerequisite: ESS261H1/ ESS262H1, ESS361H1/ ESS362H1/ GGR305H1 or permission of the instructor

Breadth Requirements: Living Things and Their Environment (4)

ESS465H1 - Topics in Critical Zone Processes

Hours: 24L

An in-depth look at a significant aspect of the Earth system. The "critical zone" -- defined as the outer layer reaching from the treetops into the weathered bedrock where rock, water, air and life interact -- is crucial to life and habitats, food production, water quality, and regulating climate. Topics will vary depending on instructor expertise, who may focus on biosphere-atmosphere interactions, or microbiologically driven cycling of energy and matter in the subsurface. Emphasis will be placed on approaches to quantitatively model interactions and reading of primary scientific literature.

Prerequisite: ESS363H1/ ESS362H1 and 9.5 credits from any ESS/ JEG/ JGA/ JPE/ MAT/ PHY/ JPH/ CHM/ JCC/ JSC/ EEB/ EHJ/ JHE/ GGR/ JGU/ JUG/ JGE/ JIG/ JGC courses

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS481H1 - Advanced Topics in Earth Sciences

Hours: 24L/24P

This course is offered on an irregular basis, typically in the winter term. Students are advised to consult the departmental notices with respect to course times and content, but should expect an in-depth study of modern earth science questions, for example mineralogy and material science, advanced petrology, or exploration geochemistry. Course instructors will often, but not always, be recruited from Industry.

Prerequisite: appropriate 300-level ESS credits. Prerequisites change from year to year; consult

Department for details.

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS490H1 - Geological Capstone Fieldtrip

The capstone course is an opportunity to integrate your collected knowledge of geology, geophysics, and environmental geoscience in an exciting and varied field setting. You will use information gathered across a variety of field sites to examine how Earth processes have shaped the larger Earth system, and how this has influenced humans. Most past trips were run for two weeks during the summer months and explored Scotland, Hawaii, Newfoundland, Labrador, or the southwestern USA; future sites and dates will vary depending on instructor and destination. Note: Enrollment is handled by the department. For registration deadlines, additional fees associated with the field course, course dates, and special registration requirements, please consult the departmental announcements or inquire with ugrad@es.utoronto.ca. Additional fee of up to \$969 may apply.

Prerequisite: 12.0 credits from any Earth Science program of study requirements. Students who do not meet the prerequisite are encouraged to contact the instructor.

Exclusion: GLG420H1

Recommended Preparation: ESS221H1/ ESS224H1, ESS262H1, ESS222H1, ESS234H1, ESS331H1, ESS423H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS491H1 - Undergraduate Thesis Project

Research emphasising methods used in field and experimental work. Students must obtain the consent of an instructor and register with the undergraduate coordinator and are urged to do so toward the end of their third year. In addition to submitting a thesis, students are required to give an oral presentation of their research results to an open meeting of the department. Not eligible for CR/NCR option.

Prerequisite: Completion of the required 300-level courses, and enrollment in a relevant program and permission of the department.

Exclusion: GLG471H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS492Y1 - Undergraduate Thesis Project

Research emphasising methods used in field and experimental work. Students must obtain the consent of an instructor and register with the undergraduate coordinator and are urged to do so toward the end of their third year. In addition to submitting a thesis, students are required to give an oral presentation of their research results to an open meeting of the department. Not eligible for CR/NCR option.

Prerequisite: Completion of the required 300-level courses in an appropriate program and permission of the department.

Exclusion: GLG470Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

JPE493H1 - Seismology

Hours: 24L

Why do earthquakes occur and how are they related to tectonic motion of the Earth's surface? What is the physics behind the propagation of seismic waves through the Earth, and how can it be used to determine the internal structures of the Earth? This introductory course is aimed at understanding the physics behind seismic wave propagation, as well as asymptotic and numerical solutions to the elastodynamic equation. Travel time and amplitude of seismic waves are discussed based on seismic ray theory, while numerical methods are introduced to obtain accurate solutions to more complex velocity structures. Seismic tomographic methods, including their applications to hydrocarbon reservoir imaging, are also covered.

Prerequisite: JPE395H1/ JGA305H1

Corequisite: APM346H1/ MAT351Y1

Recommended Preparation: ESS245H1

Breadth Requirements: The Physical and Mathematical Universes (5)

East Asian Studies

Faculty List

Professors Emeriti

S. Arntzen, MA, PhD
 E.-J. Baek, MA, PhD
 J. Ching, MA, PhD (obiit)
 R.W. Chu, BLS, MA
 V.C. Falkenheim, MA, PhD
 R. Guisso, BA, DPhil
 F.P. Hoff, MA, PhD (obiit)
 A.V. Liman, MA
 J. Liu, MA, MA, PhD
 R.J. Lynn, MA, PhD
 K. Nakajima, MA, MPhil
 L.C.D.C. Priestley, MA, PhD
 S. Sandahl, MA, PhD
 W.A. Schlepp, BSc, BA, PhD
 V.T. Shen, MA, PhD (obiit)
 R. Tsukimura, MA, PhD
 A.H.C. Ward, MA
 D.B. Waterhouse, MA, LRAM, FRSC, FRAS (obiit)

Professors

E. Cazdyn, MA, PhD
 A. Sakaki, MA, PhD
 L. Yoneyama, MA, PhD

Associate Professors

L.R. Feng, MA, PhD
 K. Kawashima, MA, PhD
 T. Keirstead, MA, PhD
 Y. Meng, MA, MA, PhD
 J. Poole, MA, PhD
 G. Sanders, PhD
 A. Schmid, MA, PhD
 Y. Wu, MA, MA, PhD
 Y. Zhong, MA, PhD

Assistant Professors

M. Cho, MA, PhD
 N. Vedal, MA, PhD

Associate Professors, Teaching Stream

J. Arimori, MA
 K. Ko, MA, PhD
 I. Komuro-Lee, MA, PhD
 H. Rupprecht, MA, PhD

Assistant Professors, Teaching Stream

Y. Choi, MA, PhD
 Y. Yoshizumi, MA, PhD

Introduction

The Department of East Asian Studies offers students the opportunity to develop a deeper understanding of the history, cultures, and languages of premodern, modern, and contemporary East Asia. The department's course offerings engage the diversity of East Asian cultures, from contemporary film and politics to ancient philosophy, and they critically examine the structures that define the area and render it an object of study. We offer a full range of courses on East Asian literature, history, thought, religion, and society, as well as Chinese, Japanese, and Korean language courses from beginning to advanced levels. In a time of globalization, a degree in East Asian Studies can be an excellent springboard from which to launch a career in fields where bilingualism, critical analytical skills, and in-depth knowledge of the socio-historical and cultural contexts of East Asian texts and ideas are essential. Our Major and Specialist programs build the foundation for careers in teaching and research, international business and law, foreign service, and cultural institutions.

Students seeking advice on course selection or academic progress should contact the Undergraduate Coordinator, but all members of the Department will be happy to provide advice and information about their course offerings. In conjunction with Woodsworth College, the Department offers courses during June and July at the University of Hong Kong, and through the Centre for International Experience, participates in exchange programs with universities in China, Korea, Japan, Taiwan, and Singapore.

General Enquiries: Robarts Library, 14th Floor, (416) 978-0023, eas.undergrad@utoronto.ca, www.eas.utoronto.ca

East Asian Studies Programs

East Asian Studies Specialist (Arts Program) - ASSPE1058

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Completion of the program requires 10.0 credits, meeting the following requirements:

1. EAS103H1 and EAS105H1, normally taken in the first year;
2. EAS209H1, highly recommended to be taken in the second year;
3. At least third-year proficiency in Chinese, Korean or Japanese, either by completing an appropriate language

course (e.g., [EAS300Y1](#)/ [EAS310Y1](#)/ [EAS320Y1](#) or a 400-level language course) or by demonstrating the required proficiency in the initial placement. Students whose placement assessment exempts them from the requirement must substitute Society-Culture courses or courses in one of the other languages offered;

4. A minimum of 5.0 Society-Culture credits, with at least 4.0 credits at the 300-level or above, of which at least 1.0 credit must be at the 400-level;

5. Additional EAS courses to a total of 10.0 credits; and

6. 2.5 credits may be courses on East Asia offered by other departments.

Note: First-year students should take [EAS103H1](#) and [EAS105H1](#), a first-year language course (unless placed in an upper-year language course by the department), and may take up to 1.0 Society-Culture credit at the 200-level.

Core Courses

[EAS103H1](#), [EAS105H1](#), [EAS209H1](#)

Society-Culture Courses

[EAS193H1](#), [EAS194H1](#), [EAS195H1](#), [EAS196H1](#),
[EAS197H1](#), [EAS198H1](#), [EAS199H1](#), [EAS218H1](#),
[EAS219H1](#), [EAS231H1](#), [EAS235H1](#), [EAS241H1](#),
[EAS242H1](#), [EAS243H1](#), [EAS245H1](#), [EAS246H1](#),
[EAS247H1](#), [EAS248H1](#), [EAS251H1](#), [EAS256H1](#),
[EAS257H1](#), [EAS263H1](#), [EAS270H1](#), [EAS271H1](#),
[EAS272H1](#), [EAS273H1](#), [EAS274H1](#), [EAS278H1](#),
[EAS279H1](#), [EAS284H1](#), [EAS284Y1](#), [EAS285H1](#),
[EAS289H1](#), [EAS289Y1](#), [EAS295Y0](#), [EAS296H1](#),
[EAS297H1](#), [EAS299Y1](#), [EAS307H1](#), [EAS308H1](#),
[EAS309H1](#), [EAS311H1](#), [EAS312H1](#), [EAS314H1](#),
[EAS315H1](#), [EAS324H1](#), [EAS327H1](#), [EAS328H1](#),
[EAS329H1](#), [EAS330H1](#), [EAS333H1](#), [EAS334H1](#),
[EAS334Y1](#), [EAS335H1](#), [EAS338H1](#), [EAS340H1](#),
[EAS343H1](#), [EAS345Y1](#), [EAS347H1](#), [EAS348H1](#),
[EAS349H1](#), [EAS350H1](#), [EAS354H1](#), [EAS355H1](#),
[EAS357H1](#), [EAS358Y1](#), [EAS361H1](#), [EAS362Y1](#),
[EAS363H1](#), [EAS364H1](#), [EAS365H1](#), [EAS366H1](#),
[EAS370H1](#), [EAS372H1](#), [EAS372Y1](#), [EAS373H1](#),
[EAS374H1](#), [EAS375H1](#), [EAS378H1](#), [EAS380H1](#),
[EAS381H1](#), [EAS384H1](#), [EAS386H1](#), [EAS387H1](#),
[EAS388H1](#), [EAS389H1](#), [EAS391H1](#), [EAS392H1](#),
[EAS393H1](#), [EAS394H1](#), [EAS395Y0](#), [EAS396H1](#),
[EAS397H1](#), [EAS398H0](#), [EAS398Y0](#), [EAS406Y1](#),
[EAS407H1](#), [EAS408H1](#), [EAS409H1](#), [EAS412H1](#),
[EAS417H1](#), [EAS418H1](#), [EAS419H1](#), [EAS420H1](#),
[EAS421H1](#), [EAS427H1](#), [EAS431H1](#), [EAS432H1](#),
[EAS433H1](#), [EAS434H1](#), [EAS435H1](#), [EAS436Y1](#),
[EAS439H1](#), [EAS444H1](#), [EAS446H1](#), [EAS447H1](#),
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[EAS458H1](#), [EAS459Y1](#), [EAS466H1](#), [EAS467H1](#),
[EAS468H1](#), [EAS470H1](#), [EAS471H1](#), [EAS471Y1](#),
[EAS473H1](#), [EAS474H1](#), [EAS475Y1](#), [EAS476H1](#),
[EAS477H1](#), [EAS479H1](#), [EAS486H1](#), [EAS488H1](#),
[EAS489H1](#), [EAS496H1](#)

Language Courses

[EAS100Y1](#), [EAS101Y1](#), [EAS110Y1](#), [EAS120Y1](#),

[EAS121H1](#), [EAS200Y1](#), [EAS201H1](#), [EAS210Y1](#),
[EAS211Y1](#), [EAS212H1](#), [EAS220Y1](#), [EAS221H1](#),
[EAS300Y1](#), [EAS301H1](#), [EAS310Y1](#), [EAS320Y1](#),
[EAS401H1](#), [EAS402H1](#), [EAS404H1](#), [EAS410Y1](#),
[EAS416Y1](#), [EAS460H1](#), [EAS461H1](#)

Society-Culture Courses on East Asia Offered by Other Departments

[ANT341H1](#), [ANT472H1](#), [ANT477H1](#), [CAS201H1](#),
[CAS202H1](#), [CAS310H1](#), [CAS320H1](#), [CAS350H1](#),
[CAS360H1](#), [CAS370H1](#), [CAS390H1](#), [CAS400H1](#),
[CAS413H1](#), [CAS414H1](#), [CAS420H1](#), [CAS430H1](#),
[CAS490H1](#), [CDN230H1](#), [CDN390H1](#), [CIN376Y1](#),
[FAH260H1](#), [FAH262H1](#), [FAH360H1](#), [FAH363H1](#),
[FAH462H1](#), [FAH463H1](#), [FAH464H1](#), [FAH465H1](#),
[GGR343H1](#), [HIS280Y1](#), [HIS316H1](#), [HIS326H1](#),
[HIS328H1](#), [HIS380H1](#), [HIS382H1](#), [HIS385H1](#), [HIS385Y0](#),
[HIS485H1](#), [HPS395Y1](#), [JHA384H1](#), [JHA394H1](#),
[JPA331H1](#), [MUS215H1](#), [NUS352H0](#), [PHL237H1](#),
[PHL334H1](#), [PHL337H1](#), [POL302H1](#), [POL431H1](#),
[RLG206H1](#), [RLG356H1](#), [RLG372H1](#), [RLG373H1](#),
[RLG374H1](#), [RLG379H1](#), [RLG465H1](#), [SLA280H1](#)

East Asian Studies Major (Arts Program) - ASMAJ1058

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Completion of the program requires 7.0 credits, meeting the following requirements:

1. [EAS103H1](#) and [EAS105H1](#), normally taken in the first year;
2. [EAS209H1](#), highly recommended to be taken in the second year;
3. At least second-year proficiency in Chinese, Korean or Japanese, either by completing an appropriate language course (e.g., [EAS201H1](#)/ [EAS200Y1](#)/ [EAS210Y1](#)/ [EAS211Y1](#)/ [EAS212H1](#)/ [EAS220Y1](#)/ [EAS221H1](#) or a higher level language course) or by demonstrating the required proficiency in the initial placement. Students whose placement assessment exempts them from the requirement must substitute Society-Culture courses or courses in one of the other languages offered;
4. A minimum of 3.0 Society-Culture credits, with at least 2.0 credits at the 300-level or above, of which at least a 0.5 credit must be at the 400-level;
5. Additional EAS courses to a total of 7.0 credits; and
6. 1.5 credits may be courses on East Asia offered by other departments.

Note: First-year students should take [EAS103H1](#) and [EAS105H1](#), a first-year language course (unless placed in

an upper-year language course by the department), and may take up to 1.0 Society-Culture credit at the 200-level.

Core Courses

EAS103H1, EAS105H1, EAS209H1

Society-Culture Courses

EAS193H1, EAS194H1, EAS195H1, EAS196H1,
EAS197H1, EAS198H1, EAS199H1, EAS218H1,
EAS219H1, EAS231H1, EAS235H1, EAS241H1,
EAS242H1, EAS243H1, EAS245H1, EAS246H1,
EAS247H1, EAS248H1, EAS251H1, EAS256H1,
EAS257H1, EAS263H1, EAS270H1, EAS271H1,
EAS272H1, EAS273H1, EAS274H1, EAS278H1,
EAS279H1, EAS284H1, EAS284Y1, EAS285H1,
EAS289H1, EAS289Y1, EAS295Y0, EAS296H1,
EAS297H1, EAS299Y1, EAS307H1, EAS308H1,
EAS309H1, EAS311H1, EAS312H1, EAS314H1,
EAS315H1, EAS324H1, EAS327H1, EAS328H1,
EAS329H1, EAS330H1, EAS333H1, EAS334H1,
EAS334Y1, EAS335H1, EAS338H1, EAS340H1,
EAS343H1, EAS345Y1, EAS347H1, EAS348H1,
EAS349H1, EAS350H1, EAS354H1, EAS355H1,
EAS357H1, EAS358Y1, EAS361H1, EAS362Y1,
EAS363H1, EAS364H1, EAS365H1, EAS366H1,
EAS370H1, EAS372H1, EAS372Y1, EAS373H1,
EAS374H1, EAS375H1, EAS378H1, EAS380H1,
EAS381H1, EAS384H1, EAS386H1, EAS387H1,
EAS388H1, EAS389H1, EAS391H1, EAS392H1,
EAS393H1, EAS394H1, EAS395Y0, EAS396H1,
EAS397H1, EAS398H0, EAS398Y0, EAS406Y1,
EAS407H1, EAS408H1, EAS409H1, EAS412H1,
EAS417H1, EAS418H1, EAS419H1, EAS420H1,
EAS421H1, EAS427H1, EAS431H1, EAS432H1,
EAS433H1, EAS434H1, EAS435H1, EAS436Y1,
EAS439H1, EAS444H1, EAS446H1, EAS447H1,
EAS448H1, EAS449H1, EAS450H1, EAS452H1,
EAS454H1, EAS455H1, EAS456H1, EAS457H1,
EAS458H1, EAS459Y1, EAS466H1, EAS467H1,
EAS468H1, EAS470H1, EAS471H1, EAS471Y1,
EAS473H1, EAS474H1, EAS475Y1, EAS476H1,
EAS477H1, EAS479H1, EAS486H1, EAS488H1,
EAS489H1, EAS496H1

Language Courses

EAS100Y1, EAS101Y1, EAS110Y1, EAS120Y1,
EAS121H1, EAS200Y1, EAS201H1, EAS210Y1,
EAS211Y1, EAS212H1, EAS220Y1, EAS221H1,
EAS300Y1, EAS301H1, EAS310Y1, EAS320Y1,
EAS401H1, EAS402H1, EAS404H1, EAS410Y1,
EAS416Y1, EAS460H1, EAS461H1

Society-Culture Courses on East Asia Offered by Other Departments

ANT341H1, ANT472H1, ANT477H1, CAS201H1,
CAS202H1, CAS310H1, CAS320H1, CAS350H1,
CAS360H1, CAS370H1, CAS390H1, CAS400H1,
CAS413H1, CAS414H1, CAS420H1, CAS430H1,
CAS490H1, CDN230H1, CDN390H1, CIN376Y1,
FAH260H1, FAH262H1, FAH360H1, FAH363H1,
FAH462H1, FAH463H1, FAH464H1, FAH465H1,

GGR343H1, HIS280Y1, HIS316H1, HIS326H1,
HIS328H1, HIS380H1, HIS382H1, HIS385H1, HIS385Y0,
HIS485H1, HPS395Y1, JHA384H1, JHA394H1,
JPA331H1, MUS215H1, NUS352H0, PHL237H1,
PHL334H1, PHL337H1, POL302H1, POL431H1,
RLG206H1, RLG356H1, RLG372H1, RLG373H1,
RLG374H1, RLG379H1, RLG465H1, SLA280H1

East Asian Studies Minor (Arts Program) - ASMIN1058

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Completion of the program requires 4.0 credits, meeting the following requirements:

1. EAS103H1 and EAS105H1;
2. 3.0 Society-Culture credits, one of which must be 300/400-level;
3. 1.0 credit may be courses on East Asia offered by other departments.

Language courses cannot be used to fulfil the requirements of the Minor program.

Core Courses

EAS103H1, EAS105H1, EAS209H1

Society-Culture Courses

EAS193H1, EAS194H1, EAS195H1, EAS196H1,
EAS197H1, EAS198H1, EAS199H1, EAS218H1,
EAS219H1, EAS231H1, EAS235H1, EAS241H1,
EAS242H1, EAS243H1, EAS245H1, EAS246H1,
EAS247H1, EAS248H1, EAS251H1, EAS256H1,
EAS257H1, EAS263H1, EAS270H1, EAS271H1,
EAS272H1, EAS273H1, EAS274H1, EAS278H1,
EAS279H1, EAS284H1, EAS284Y1, EAS285H1,
EAS289H1, EAS289Y1, EAS295Y0, EAS296H1,
EAS297H1, EAS299Y1, EAS307H1, EAS308H1,
EAS309H1, EAS311H1, EAS312H1, EAS314H1,
EAS315H1, EAS324H1, EAS327H1, EAS328H1,
EAS329H1, EAS330H1, EAS333H1, EAS334H1,
EAS334Y1, EAS335H1, EAS338H1, EAS340H1,
EAS343H1, EAS345Y1, EAS347H1, EAS348H1,
EAS349H1, EAS350H1, EAS354H1, EAS355H1,
EAS357H1, EAS358Y1, EAS361H1, EAS362Y1,
EAS363H1, EAS364H1, EAS365H1, EAS366H1,
EAS370H1, EAS372H1, EAS372Y1, EAS373H1,
EAS374H1, EAS375H1, EAS378H1, EAS380H1,
EAS381H1, EAS384H1, EAS386H1, EAS387H1,
EAS388H1, EAS389H1, EAS391H1, EAS392H1,
EAS393H1, EAS394H1, EAS395Y0, EAS396H1,
EAS397H1, EAS398H0, EAS398Y0, EAS406Y1,
EAS407H1, EAS408H1, EAS409H1, EAS412H1,

[EAS417H1](#), [EAS418H1](#), [EAS419H1](#), [EAS420H1](#),
[EAS421H1](#), [EAS427H1](#), [EAS431H1](#), [EAS432H1](#),
[EAS433H1](#), [EAS434H1](#), [EAS435H1](#), [EAS436Y1](#),
[EAS439H1](#), [EAS444H1](#), [EAS446H1](#), [EAS447H1](#),
[EAS448H1](#), [EAS449H1](#), [EAS450H1](#), [EAS452H1](#),
[EAS454H1](#), [EAS455H1](#), [EAS456H1](#), [EAS457H1](#),
[EAS458H1](#), [EAS459Y1](#), [EAS466H1](#), [EAS467H1](#),
[EAS468H1](#), [EAS470H1](#), [EAS471H1](#), [EAS471Y1](#),
[EAS473H1](#), [EAS474H1](#), [EAS475Y1](#), [EAS476H1](#),
[EAS477H1](#), [EAS479H1](#), [EAS486H1](#), [EAS488H1](#),
[EAS489H1](#), [EAS496H1](#)

Society-Culture Courses on East Asia Offered by Other Departments

[ANT341H1](#), [ANT472H1](#), [ANT477H1](#), [CAS201H1](#),
[CAS202H1](#), [CAS310H1](#), [CAS320H1](#), [CAS350H1](#),
[CAS360H1](#), [CAS370H1](#), [CAS390H1](#), [CAS400H1](#),
[CAS413H1](#), [CAS414H1](#), [CAS420H1](#), [CAS430H1](#),
[CAS490H1](#), [CDN230H1](#), [CDN390H1](#), [CIN376Y1](#),
[FAH260H1](#), [FAH262H1](#), [FAH360H1](#), [FAH363H1](#),
[FAH463H1](#), [FAH464H1](#), [FAH465H1](#), [GGR343H1](#),
[HIS280Y1](#), [HIS316H1](#), [HIS326H1](#), [HIS328H1](#), [HIS380H1](#),
[HIS382H1](#), [HIS385H1](#), [HIS385Y0](#), [HIS485H1](#), [HPS395Y1](#),
[JHA384H1](#), [JHA394H1](#), [JPA331H1](#), [MUS215H1](#),
[NUS352H0](#), [PHL237H1](#), [PHL334H1](#), [PHL337H1](#),
[POL302H1](#), [POL431H1](#), [RLG206H1](#), [RLG356H1](#),
[RLG372H1](#), [RLG373H1](#), [RLG374H1](#), [RLG379H1](#),
[RLG465H1](#), [SLA280H1](#)

East Asian Studies Courses

EAS First-Year Foundations

EAS193H1 - What is “The Yellow Peril”?

Hours: 24L

This course explores the old and new reincarnations of “the Yellow Peril” complex. The 2020 naming of COVID-19 as “the Chinese virus” by the U.S. president Donald Trump has provoked much anger, criticism, and concerns for anti-Asian violence and the reactivation of “The Yellow Peril” panic. Yet the imaginaries of “the Yellow Peril” and their power effects have been engrained in our political modernity, the Enlightenment ideas, and its institutions in a much more complex, far-reaching, and intersecting ways in East Asia and beyond. The course will explore various types of cultural productions, including history, literature, film, news media, etc., to introduce the racial, colonial, capitalist, sexual, militarized, and other

Faculty of Arts & Science Language Citation

The Department of East Asian Studies participates in the Faculty of Arts and Science’s Language Citation initiative for Chinese, Japanese, and Korean. The study of any of these languages is a challenging and time-consuming endeavour, which offers rich rewards for students interested in the cultures, societies, and economies of East Asia.

The Language Citation recognizes a significant level of achievement in language study with a high level of academic success. The Language Citation is available to students who achieve a B- or above in 2.0 credits beyond the first-year course in a language. The following courses count towards a Language Citation:

- Chinese – [EAS200Y1](#), [EAS201H1](#), [EAS300Y1](#), [EAS301H1](#), [EAS401H1](#), [EAS402H1](#), [EAS404H1](#)
- Japanese – [EAS220Y1](#), [EAS221H1](#), [EAS320Y1](#), [EAS460H1](#), [EAS461H1](#)
- Korean – [EAS210Y1](#), half (0.5) a credit of [EAS211Y1](#), [EAS212H1](#), [EAS310Y1](#), [EAS410Y1](#), and [EAS416Y1](#)

Students should note that, as explained in the [About Programs of Study](#) section of this Calendar, the Language Citation is not equivalent to an academic program and that enrolment in a program is not necessary in order to earn the recognition bestowed by the Citation. Students interested in the Citation should email eas.undergrad@utoronto.ca.

dimensions of the “Yellow Peril.” Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

EAS194H1 - East Asia through Music

Hours: 24L

This course will discuss ‘East Asia’ through music as composed, performed, recorded, processed, remembered, imagined, and represented. Questions to be asked include: what kinds of sound are recognized as music in East Asia? What are the goals and effects of music? When, where, and how is music performed in East Asia? How is music described in East Asian literature and visual art? How does music translate East Asian literature and visual art? How are certain musical elements—tonality, rhythm, genre, instruments—recognized as ‘East Asian’? How is East Asia imagined musically? How are East Asian composers and performers received globally? Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

EAS195H1 - Shan Shui Landscape: A Cultural Historical Study

Hours: 24L

This course looks into the history of cultural production of Chinese Shan Shui (lit., mountain and water) landscape representations from an environmental humanities perspective. As an artistic motif, Shan Shui travels between past and present and across various mediums as well as literary and artistic genres. What exactly are we invited to see and contemplate on in the Shan Shui? Are Shan Shui works about “nature,” spirit, Qi, or the human world? The course seeks to inquire into these and other questions through examining the concepts, arts, and transformations of selected Shan Shui works in imperial and contemporary China. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

EAS196H1 - Consumption, Taste and Culture in East Asia

Hours: 24S

This course explores the roles that consumption and taste play in personal and public lives in East Asia. Course focus may include the cultural histories of food, fashion, tourism, sports, or forms of audio and visual media. (No prior knowledge of East Asian languages or cultures is necessary.) Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

EAS197H1 - Media Worlds and East Asia

Hours: 24S

The term “world-making” is often used nowadays to refer to transmedia storytelling, or the creation of story-worlds across serial narratives in a range of entertainment media, such as novels, games, film series/franchises, television shows, comics, and webtoons. This course looks at the ways that media producers and fans, alike, engage with media worlds. More importantly, the course situates these media worlds within a broader conception of “world-making,” namely, the geopolitical and economic

configuration of modern East Asia. (No prior knowledge of East Asian languages or cultures is necessary.) Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

EAS198H1 - Martial Arts in East Asian Narratives

Hours: 24S

What can we learn about East Asian history and culture through its rich tradition of narratives featuring the martial arts? This course introduces short stories and novels dealing with combat and warfare from nearly two thousand years of East Asian literature, exploring issues such as self and society, gender, power, the body, and identity. All texts will be provided in translation, and no prior knowledge of any East Asian language or culture is necessary. The texts explored will vary year to year, depending on the instructor. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

EAS199H1 - Thinking through Art in Chinese Culture

Hours: 24S

This seminar explores different visions and methods of art (textual and visual) as a way of thinking about living, knowing, and willing in Chinese culture. Examination of various theoretical texts on arts and literature, as well as works of art themselves, will provide students with knowledge and research skills on arts in Chinese culture, and an expanded sense of Chinese intellectual history. Questions explored in the course will include: How should we understand the concept of Chinese art beyond representation? How did Chinese literati pursue a sense of beauty through their poetry and painting? How is beauty apprehended in natural and constructed landscapes? What are the political and social functions of art education in Chinese culture? How do Chinese artists fit into a global cultural context? (No prior knowledge of East Asian languages or cultures is necessary.) Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

Core Courses

EAS103H1 - Premodern East Asia

Hours: 24L/12T

Examines how various histories of East Asia can be written by focusing on specific themes in the histories of China, Japan, and Korea to roughly 1600. Required of EAS specialists, majors, and minors.

Exclusion: [EAS102Y1](#)

Breadth Requirements: Society and its Institutions (3)

EAS105H1 - Modern East Asia

Hours: 24L/12T

Examines how various histories of East Asia can be written by focusing on specific themes in the histories of China, Japan, and Korea from roughly 1600 to the Cold War. Required of EAS specialists, majors, and minors.

Prerequisite: [EAS103H1](#)

Exclusion: [EAS102Y1](#)

Breadth Requirements: Society and its Institutions (3)

EAS209H1 - Approaches to East Asia

Previous Course Number: EAS209Y1

Hours: 24L/12T

Required of EAS specialists and majors, this course introduces various approaches, theories, and methodologies for the study of East Asian societies and cultures. As the course serves as a foundation for upper-level EAS courses, it should be taken as early as possible, preferably in the second year.

Prerequisite: [EAS103H1](#), [EAS105H1](#)

Exclusion: [EAS209Y1](#)

Society-Culture Courses

EAS218H1 - Classical Chinese Prose

Hours: 24L

This course introduces the form and types of prose in classical Chinese literature by critical reading of some basic Chinese texts and their English translations on various themes, such as history, philosophy, religion and art.

Breadth Requirements: Creative and Cultural Representations (1)

EAS219H1 - Cultural History of Food in East Asia

Hours: 24L

This course introduces historical, literary, and anthropological issues related to the consumption of food in East Asia. Through a wide variety of reading materials, it focuses on the relationship between various foodways and trade, ritual, religion, medicine, and cultural identity.

Breadth Requirements: Creative and Cultural Representations (1)

EAS231H1 - Tales of the Supernatural in Chinese Literature

Hours: 24L

This course explores the long tradition of writing about the fantastic, strange, and supernatural in Chinese literature, from the earliest records to medieval tales, late imperial opera, and contemporary science fiction. In addition to close reading and interpretation, we will situate these texts in their social and cultural contexts, examining critical moments of transformation in Chinese history and the enduring questions they raise in terms of philosophy, religion, gender, ethnicity, and politics.

Breadth Requirements: Creative and Cultural Representations (1)

EAS235H1 - Perceptions of China in Japanese Literature

Hours: 24L

Lectures on Japanese literary negotiations with China, the Chinese and Chineseness, ranging from celebration of shared cultural practices and aestheticization of China to nativist resistance to Chinese cultural hegemony. Required readings are available in English translation, including Tale of Genji, Tale of Middle-Councillor Hamamatsu (medieval romance), Haku Rakuten (No Play), Battles of Coxinga (Kabuki play), Three-Cornered World (by Soseki), and Wild Goose (by Ogai).

Breadth Requirements: Creative and Cultural Representations (1)

EAS236H1 - Queer Feminist Literature: Writing in Global Capitalism

Hours: 24L

This course is an introduction to gender and sexuality studies and East Asian queer feminist writings produced in the context of global capitalism.

Breadth Requirements: Creative and Cultural Representations (1)

EAS241H1 - Introduction to Chinese Philosophy

Hours: 36L

A historical introduction to Chinese philosophy, covering selected figures and texts from the Warring States period through the Qīng dynasty. Schools of thought covered include Confucianism, Mohism, Daoism, Legalism, "Profound Learning," Neo-Confucianism, and "Evidential Learning." Texts and thinkers include the Confucian *Analects*, *Mòzǐ*, *Mèngzǐ*, *Xúnzǐ*, *Dàodéjīng*, *Zhuāngzǐ*, *Hán Fēi*, Guō Xiàng, Zhū Xī, Wáng Yángmíng, and Dài Zhèn.

Exclusion: [PHL237H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

EAS242H1 - Japanese Cinemas I: Film Form and the Problems of Modernity

Hours: 36L/12T

This course investigates how film aesthetics relate to the most profound socio-historical problems of Japanese modernity. It also considers the ways various filmmakers employ cinematic form to engage the social problems of their moment. Part I focuses on the 1890s - 1950s.

Exclusion: [EAS237Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS243H1 - Japanese Cinemas II: Film Form and the Problems of Modernity

Hours: 36L/12T

This course investigates how film aesthetics relate to the most profound socio-historical problems of Japanese modernity. It also considers how various film makers

employ cinematic form to engage the social problems of their moment. Part II focuses on the 1960s - present.

Exclusion: [EAS237Y1](#)

Recommended Preparation: [EAS242H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS245H1 - Premodern Japanese History

Hours: 24L

A survey of the history of premodern Japan from earliest recorded histories to the establishment of the Tokugawa regime in the seventeenth century. Uses a wide range of translated primary Japanese texts to illuminate the emergence of cultural forms and their conjunction with social, economic, religious, and political trends.

Recommended Preparation: [EAS103H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS246H1 - Early Modern Japanese History

Hours: 24L

A survey of the history of Japan from about 1600 until the disintegration of the Tokugawa regime in the mid-19th century. Uses a wide range of translated primary Japanese texts to illuminate the emergence of cultural forms and their conjunction with social, economic, religious, and political trends.

Recommended Preparation: [EAS103H1](#)/ [EAS105H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS247H1 - History of Capitalism in Modern Japan

Hours: 24L

This course provides a historical narrative of the development of the capitalist mode of production in Japan, from the mid-19th century to the present day. Readings include texts from various disciplines: economics, philosophy, social and labour history, and literature.

Breadth Requirements: Society and its Institutions (3)

EAS248H1 - Marxism and East Asia

Hours: 24L

This course focuses on how Marxism became one of the most important and influential systems of revolutionary thought in East Asian countries such as Japan, Korea, and China in the twentieth century, with enormous repercussions for our present historical conjuncture. The course particularly focuses on the theoretical creativity and impasses that went into translating the basic tenets of Marxism to address particular, national questions in East Asia.

Breadth Requirements: Society and its Institutions (3)

EAS249H1 - Sinophone Cinemas: Revolution of the Sensible World

Hours: 24L/24P

This course is an introduction to the cinematic avant-garde movements that follow the end of the first Cold War across the Sinophone world, specifically China, Hong Kong, and Taiwan. Taking up the legacies of the Cold War, we examine specific film histories in each region and situate the New Wave movements of the past four decades in a vast terrain that is shaped by the narratives of war, nationalism, colonialism, economic integration, urbanization, among others.

Breadth Requirements: Creative and Cultural Representations (1)

EAS251H1 - Aesthetics and Politics in 20th Century Korea

Hours: 24L

This lecture course examines key questions and texts in the history of literature from the Korean peninsula during the twentieth century, exploring how aesthetic form refracted the experiences of colonialism, division, and the formation of opposing nation-states.

Breadth Requirements: Creative and Cultural Representations (1)

EAS256H1 - Chinese Literature (Pre-Qin to Tang)

Hours: 24L

A survey of major works in premodern Chinese literature, including poetry, essays, and short narratives from the pre-Qin through Tang eras (11th century BCE - 10th century CE).

Exclusion: [EAS336Y1](#), [EAS336H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS257H1 - Chinese Literature (Song to Qing)

Hours: 24L

A survey of major works in premodern Chinese literature, including poetry, essays, short narratives and drama from the Song through Qing dynasties (10th - 19th centuries CE).

Exclusion: [EAS337Y1](#), [EAS337H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS263H1 - Classical Japanese Literature

Hours: 24L

This course examines canonical literary works written in classical and sinicized Japanese (bungo and kanbun), including poetry, narrative, and theatre, produced from the Nara Period to the Edo Period (roughly 8th to 19th Centuries), with an emphasis on rhetoric, media, performance, reception history, canon formation and gender relations. Themes include: orality and literacy; masculine and feminine discourses; image and text; poetry and narrative; (auto)biography and fiction; intertextuality and authorship; the supernatural and realistic; establishment and resistance; and the centre and periphery. All readings will be in English.

Recommended Preparation: [EAS103H1](#), [EAS245H1](#), [EAS246H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS270H1 - Narratives of 19th-Century Korea

Hours: 24L

This course examines the tumultuous events of 19th-century Korea – from peasant uprisings to gunboat diplomacy and from the decline of slavery to the

economy's integration into global capitalism – together with the ways these events have been subjected to the changing and contentious interpretations of historians.

Breadth Requirements: Society and its Institutions (3)

EAS271H1 - 20th Century Korean Colonial History

Hours: 24L

An exploration of Korean colonial history in a comparative and global context, including coverage of controversies over political economy, gender, race, architecture, and later public memory debates.

Exclusion: [EAS271Y1](#)

Breadth Requirements: Society and its Institutions (3)

EAS272H1 - The Two Koreas in World History

Hours: 24L

This course begins with the division of the peninsula into two mutually-hostile Koreas in the context of decolonization and the Cold War, and traces the struggles of peoples on both sides of the divide down to the late 20th century.

Breadth Requirements: Society and its Institutions (3)

EAS273H1 - Modern Chinese Cities

Hours: 24L

This course offers a critical review of the history and historiography of modern Chinese cities. Focusing on the development of specific Chinese cities, the course emphasizes understanding the socio-cultural production of space as well as analytical reading of landscape, urban imagery, and urban writings.

Breadth Requirements: Creative and Cultural Representations (1)

EAS274H1 - Popular Culture in East Asia

Hours: 24L

Through various forms of popular culture in the 20th century, this course explores the cultural contexts and social trajectories of China, Japan and Korea. Forms of popular culture studied include art, visual culture, consumer habits, foodways, advertising, music, and fashion.

Breadth Requirements: Creative and Cultural Representations (1)

EAS278H1 - Approaches to Korean Cinema

Hours: 48L

This course explores the postwar development of film in Korea with a focus on the analysis of film form, genre and historical context.

Breadth Requirements: Creative and Cultural Representations (1)

EAS279H1 - East Asian Ecocinema

Hours: 36L

The course examines the ethical, political, historic and aesthetic dimensions of Asian Ecocinema (environmental films that engage with the Asia-based global environmental crisis) and discusses the films' ways of connecting place and planet.

Breadth Requirements: Creative and Cultural Representations (1)

EAS284H1 - Modern Chinese Literature

Hours: 24L

This course offers a critical examination of 20th-century Chinese literature, with a focus on the important developments of literary writing over time, from the inception of New Literature in the 1910s, the development of realism and modernism in the 1930s, to the emergency of post-revolution and postmodernist writings in the 1990s. Emphasis is placed on generating a dialogue on interpretations of key works.

Exclusion: [EAS284Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS285H1 - Revolutions in Modern China

Hours: 24L

This course offers an interdisciplinary treatment of the Chinese people's protracted struggle to transform the world's oldest empire and to create a revolutionary society, with a special focus on the myriad revolutions, uprisings, and protests that had radically remade the country's social fabric in the tumultuous twentieth century. First-person accounts, classic and revisionist scholarly works, and literary and visual materials will be used to examine China's multifaceted transformations both chronologically and thematically, in their socioeconomic, cultural, political, and global contexts.

Recommended Preparation: EAS105H1, HIS280Y1
Breadth Requirements: Society and its Institutions (3)

EAS289H1 - Environment and East Asia

Previous Course Number: EAS289Y1
Hours: 24L

This course introduces environmental issues that are important to East Asia. Or better put, it examines the role East Asia plays in the global environmental crisis. We engage both the factual and humanities' dimensions of Climate Change, biodiversity loss, and other urgent environmental crises.

Exclusion: EAS289Y1
Breadth Requirements: Society and its Institutions (3)

EAS295Y0 - Topics in East Asian Studies (Summer Abroad)

This course allows students to pursue the specialized study of specific topics tailored to the research and study opportunities available in Hong Kong and the expertise and interests of the instructor. Available only in the Woodsworth College Hong Kong Summer Program.

EAS296H1 - Topics in East Asian Studies

Hours: 24L

A study of Chinese, Japanese or Korean culture, history and/or literature. Content depends on the instructor. When offered, the course will have a subtitle that describes its content.

EAS297H1 - Texts, Images and Objects in East Asia

Hours: 24P

This course seeks to understand East Asian civilizations through texts, images, and objects exhibited at the Royal Ontario Museum (ROM). Students study various texts, paintings, bronzes, architecture, sculptures, porcelains, and other objects, and explore their historical, aesthetic, and critical meanings.

Breadth Requirements: Creative and Cultural Representations (1)

EAS307H1 - Traditional Chinese Political Philosophy

Hours: 24L

This course explores and evaluates the views of prominent Chinese thinkers and texts from the classical, medieval, and late imperial periods on central issues in political philosophy, including the justification of political authority, the relation between people and the state, the roles and means of government, and the extent of the state's power over its subjects. We cover a broad selection of materials from different periods in Chinese history, devoting special attention to the specific form that certain philosophically relevant issues take in Chinese political discourse, such as the role of formal standards versus that of character, the interplay between institutions and ethical discretion, the role of education versus legal coercion, and the advantages of central versus local administration. Readings will include selections from the *Documents*, *Guānzǐ*, *Mòzǐ*, *Analects*, *Mèngzǐ*, *Xúnzǐ*, *Dàodéjīng*, *Zhuāngzǐ*, *Hánfēizǐ*, *Discourses on Salt and Iron*, Jī Kāng, Guō Xiàng, Bào Jìng Yán, Luó Yǐn, Ōuyáng Xiū, Chéng Yí, Wáng Ānshí, Chéng Hào, Hú Hóng, Chén Liàng, Fāng Xiàorú, Gù Yánwǔ, Huáng Zōngxī, and Táng Zhēn.

Prerequisite: EAS105H1/ EAS241H1/ PHL237H1
Breadth Requirements: Thought, Belief and Behaviour (2)

EAS308H1 - East Asia Seen in Maps, Ancient and Modern

Hours: 24L

Through the lens of important maps ancient and new, this course looks at the histories, cultural logic, and methods of visual representation in societies of East Asia. The

maps include archaeological artifacts, ancient manuscripts, and printed renditions, spanning from early history to the nineteenth century.

Prerequisite: EAS105H1

Breadth Requirements: Thought, Belief and Behaviour (2)

EAS309H1 - Modern Chinese Prose

Hours: 24S

A survey of representative works of prose written by 20th-century Chinese writers. This course focuses on reading texts, as well as analyzing their textual structures, aesthetic values, and historical contexts.

Prerequisite: EAS105H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS311H1 - A History of Japanese Monsters

Hours: 24L

This course examines the historical development of Japanese monsters, from roughly the 7th - 8th centuries to modern times. We focus on how the changing understanding of monsters in society has embodied certain fissures in Japanese culture, especially with regard to gender and class.

Prerequisite: EAS105H1

Recommended Preparation: EAS209H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS312H1 - Art and Archaeology of Early China

Hours: 36L

This course explores ancient societies from prehistory to the Bronze Age of China from archaeological perspectives with a focus on Chinese collections at the ROM. The course offers students an understanding of the origins and formation of Chinese civilizations.

Prerequisite: EAS105H1 and EAS209H1/ ANT100Y1/ ANT200Y1

Exclusion: EAS411H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS314H1 - Culture & World After Hiroshima & Nagasaki

Hours: 24L

Exploration of literature, film, and other cultural production related to the atomic bombing and other nuclear catastrophes from transnational, inter-Asia, and transpacific perspectives. Primarily focuses on, but not necessarily limited to, the cultural texts, intellectual concepts, and social thoughts generated out of the history of Hiroshima and Nagasaki atomic destruction.

Prerequisite: EAS105H1

Breadth Requirements: Society and its Institutions (3)

EAS315H1 - The "Yellow Peril": Past & Present

Hours: 24L

Beginning with the Chinese Exclusion Acts, the Asian presence in North America has often been considered a serious social menace. This course explores the Asian/North American response to the past and present "Yellow Peril" constituted as a gendered, sexualized, classed, and racialized epistemological and affective structure of knowledge.

Prerequisite: EAS105H1

Breadth Requirements: Society and its Institutions (3)

EAS324H1 - The Asia-Pacific in the Nuclear Age

Hours: 24L

From the events such as the world's first use of the atoms for war, the Cold War nuclear arms race, the "Atoms for Peace" campaign, the worst nuclear accident in history, to the unfolding threat of nuclear proliferation, the twentieth century Asia-Pacific region has been profoundly shaped by the nuclear age. The course introduces the diverse cultural knowledge and social thoughts that have developed distinctly in the Asia-Pacific in response to the nuclear-related affairs. They include, for instance, the ideas and practices concerning the environment, the human, peace, visibility, security, coloniality, sustainability, etc.

Prerequisite: EAS105H1

Breadth Requirements: Society and its Institutions (3)

EAS327H1 - Japanese Fiction and the Nation

Hours: 24L/4T

Explores modern Japanese literature, with special attention given to literature's relation to the nation. Students explore how literature transforms throughout Japanese modernity and how its meaning and effects function to simultaneously solidify and fracture national identity.

Prerequisite: EAS105H1 and at least one (0.5 credit) course in literature

Breadth Requirements: Creative and Cultural Representations (1)

EAS328H1 - Science, Technology and Society in Modern China

Hours: 24L

Learn to understand modern China from an understudied yet important perspective: the development of science and technology since the establishment of People's Republic in 1949. Science and technology have played crucial parts in China's political, economical, social, and cultural transformations. Drawing from anthropological, social, and historical studies of science, we examine, among other topics, science and nation-building, biopolitics, technocracy, and scientists' self-fashioning at the junction of Communist reign and global capitalism. Students also learn key concepts of science studies.

Prerequisite: EAS105H1/ CAS201H1

Breadth Requirements: Society and its Institutions (3)

EAS329H1 - Cross-Cultural History of Scents and Aromatics

Hours: 24L

This course surveys the importance of smell as a form of knowledge and source of history, and explores the use of aromatics in medicine, food, ritual, and personal fragrance, along with their role as a global commodity in East Asia and beyond. Students will read a variety of medieval and early modern texts about aromatics as well as more recent studies on olfaction.

Prerequisite: EAS105H1

Breadth Requirements: Society and its Institutions (3)

EAS330H1 - Narrative Strategies in Modern Japanese Fiction

Hours: 24L

Discussion of narratives by modern Japanese authors with attention to issues in narratology and contemporary narrative studies such as: voice and perspective; gender and power relationships of the narrator-narratee-narrated; the act of narrating, writing, listening and reading; and metafictional paradox.

Prerequisite: EAS105H1 and one of the following:

EAS218H1/ EAS231H1/ EAS235H1/ EAS251H1/
EAS256H1/ EAS257H1/ EAS263H1/ EAS279H1/
EAS284H1/ EAS284Y1/ EAS308H1/ EAS309H1/
EAS327H1/ EAS333H1/ EAS334H1.

Breadth Requirements: Creative and Cultural Representations (1)

EAS333H1 - Modernism and Colonial Korea

Hours: 24L

This course considers the problem of colonial modernism through a close reading of literary and cultural texts from early 20th-century Korea. It asks what it means to enter modernity under colonial rule, and questions the relationship between imperialism, writing, and subjectivity. Topics include the role of literature in elaborating new concepts of subjectivity, literature and the fine arts as assimilatory practices, the emergence of urban space and reconfiguration of notions of the rural, and changing notions of time and space in the cultural products of nativism. Readings of literary works will be accompanied by showings of paintings and photographs from the period, as well as discussions of theoretical essays on modernism.

Prerequisite: EAS105H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS334H1 - Chinese Novels

Hours: 24L

This course explores the development of Chinese fiction from earliest times with emphasis on the twentieth century.

Prerequisite: EAS105H1

Exclusion: EAS334Y1

Breadth Requirements: Creative and Cultural Representations (1)

EAS335H1 - Introduction to Manchu Language and History

Hours: 24L

This course explores the history of Manchu rule in China's last imperial dynasty, the Qing (1644–1912), through an introduction to the Manchu language. In addition to learning to read Manchu materials, from imperial court documents to conversation guides and short stories, students will be exposed to a wide range of historical approaches to the study of Manchu social, literary, and political culture, as well as ethnicity in late imperial China.

Prerequisite: EAS209H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS338H1 - Classical Daoism

Hours: 48L/24P

This course examines major issues of classical Daoist thought, such as Dao and cosmos, body and self, human nature, language and knowledge, and political visions. Based on both textual and ideological analysis of Daoist works such as the Laozi, the Zhuangzi, and Huanglao Daoist texts, to be updated with recently unearthed texts in silk and bamboo slips.

Prerequisite: EAS105H1 and PHL237H1/ EAS241H1

Breadth Requirements: Thought, Belief and Behaviour (2)

EAS340H1 - Chinese Society and Culture

Hours: 24L

This course explores issues of identity, self, and community in a broad exploration of cultural transformation in China.

Prerequisite: EAS105H1

Exclusion: EAS340Y1

Recommended Preparation: EAS103H1

Breadth Requirements: Society and its Institutions (3)

EAS343H1 - A History of Sushi

Hours: 24L

Japan's most famous foodstuff—and a global commodity—sushi is simultaneously “Japanese” and international. This course uses sushi and other familiar Japanese dishes as a starting point to investigate how food takes on, maintains, or sheds national characteristics in an age of globalization and fusion cuisine. The historical development of sushi offers a perspective on how ideas about Japan and Japaneseness have evolved and about how Japan has interacted with global currents in food and culture.

Prerequisite: EAS105H1

Recommended Preparation: EAS219H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS345Y1 - The Rise of Greater China: Issues & Topics

Previous Course Number: EAS345H1

Hours: 48L

This course looks at China from a regional perspective, with a focus on Taiwan, Hong Kong, and the Peoples Republic of China's economic integration. The role of Chinese communities globally and in Southeast Asia also receives attention.

Prerequisite: EAS105H1

Exclusion: EAS345H1

Recommended Preparation: One course on modern China or East Asia or equivalent

Breadth Requirements: Society and its Institutions (3)

EAS347H1 - Everyday Life in Modern Japan

Hours: 24L

This course analyzes the history of modern Japan from the perspective of a “critique everyday life” (*la vie quotidienne*; *nichijō seikatsu*). Analyzing the uneven transformation of Japan's feudal society into a capitalist commodity economy, the course discusses how everyday life in Japan was produced and reproduced in ways that are specific to capitalist society, but that also open onto questions of a revolution of everyday life, an everyday life after capitalism. Focusing on different moments in Japan's modern history (including its past colonial empire), the course looks at, reads, and listens to diverse representations of everyday life in Japan, especially in the worlds of work and labour, consumption and social reproduction. How are these worlds represented politically, as well as aesthetically? Specific topics include: literature and music, architecture and housing, war and forced labour, population control and sexual reproduction, and radio, leisure-time, and state propaganda.

Prerequisite: [EAS105H1](#)

Recommended Preparation: [EAS247H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS348H1 - Gift, Plunder, and Exchange: Japan and World History

Hours: 24L

This course critically re-evaluates the history and historiography of Japanese capitalism, imperialism/colonialism, and world-empire through the lens of three, distinct “modes of exchange”: gift, plunder, and commodity exchange. Inspired by Kojin Karatani's *The Structure of World History: From Modes of Production to Modes of Exchange* (2014), this course explores the emancipatory politics inherent in the critical analysis of modes of exchange, and takes up historical cases from Japan, Hokkaido, Okinawa, Taiwan, Korea, China, and the “Greater East Asian Co-Prosperity Sphere.”

Prerequisite: [EAS105H1](#)/ [EAS247H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS349H1 - Soundscapes and Modern China

Hours: 24L

An introduction to sound studies through the case of modern China. The class surveys basic theories of sound studies. It investigates the technological, cultural, and social production of soundscapes in modern China. Topics include the invention of national language(s), the introduction of gramophone, radio, and sound cinema, and the relationship between sound, aesthetics, and power.

Prerequisite: [EAS105H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS350H1 - Ideology and Japan

Hours: 24L

This course analyzes the problem of ideology in relation to the development of capitalism and imperialism in modern Japan. Among the topics analyzed in the course will be: the development of a national ideology in the transition to capitalism, the rise of “ultra-nationalism,” the ideological battles between Communism and fascism, the ideological struggles surrounding the U.S. military occupation of Japan, and the question of national ideology in the postwar period.

Prerequisite: [EAS105H1](#)/ [EAS247H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS354H1 - Body, Movement, Japan

Hours: 24L

This course will explore theories and practices of the body and movement in Japan by way of a series of associated territories: From the 17th century walking poetry of Basho to various political resistance movements of the 1960s, from the revolutionary dance experiments of Min Tanaka to Buddhist inspired philosophies of Body-Mind and physics inspired theories of movement by Japanese scientists to the movement of information, people, and capital at the contemporary moment.

Prerequisite: [EAS105H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS355H1 - The Art and Politics of Video in Japan

Hours: 24L

This course will study the history of Japanese video art, beginning in the 1960s (when the Sony Corporation released the first portable video cameras) leading to the contemporary moment in which recording devices (phones, surveillance cameras, computers) and new distribution models (the Internet, public projections) abound. Video art is neither cinema nor television, and its early history is marked by some of the most radical artistic and political experiments in the history of modern Japan. This course will focus on the aesthetics and politics of experimental video with an eye on its global flows and Japan's central role in its development.

Prerequisite: [EAS105H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS357H1 - Mao's China and Beyond

Hours: 24L

This course introduces major issues and events in contemporary Chinese history from the success of the Communist revolution in 1949 to China's postsocialist transitions in the 1980s and early 1990s. Topics include the development and victory of the Chinese Communist revolution, the rule and legacy of Mao Zedong (particularly the Hundred Flowers movement, the Great Leap Forward,

and the Cultural Revolution), and economic reform and political repression in the era of Deng Xiaoping.

Prerequisite: EAS105H1

Breadth Requirements: Society and its Institutions (3)

EAS358Y1 - Classical Chinese I

Hours: 48S

An introduction to the Classical Chinese language with emphasis on grammatical analysis and translation into English. Open only to EAS majors and specialists.

Prerequisite: EAS103H1, EAS100Y1/ EAS101Y1/ EAS200Y1

Recommended Preparation: Two or more years of Modern Standard Chinese

Breadth Requirements: Creative and Cultural Representations (1)

EAS361H1 - Zen Buddhism

Hours: 24L

This course introduces the Zen Buddhist traditions of China, Korea, and Japan. Emphasis is placed on the radical views of history, language, ritual, self, and enlightenment espoused by these traditions. The course also examines issues related to Zen monasticism, the development of koans, and the definition of orthodoxy in both premodern and modern Zen. Students will be asked to explore these and other topics by paying close attention to the historical, doctrinal, and institutional contexts from which they arose.

Prerequisite: EAS105H1

Breadth Requirements: Thought, Belief and Behaviour (2)

EAS362Y1 - Classical Japanese

Hours: 48S

Introduction to classical Japanese, followed by readings of various short works by classical authors.

Prerequisite: EAS220Y1

Breadth Requirements: Creative and Cultural Representations (1)

EAS363H1 - Classical Japanese Part I

Hours: 24S

Introduction to classical Japanese, followed by readings of various short works by classical authors. Covers first half of EAS362Y1.

Prerequisite: EAS220Y1

Exclusion: EAS362Y1

Breadth Requirements: Creative and Cultural Representations (1)

EAS364H1 - China's Cultural Revolution: History and Memory

Hours: 24L

No understanding of contemporary China is possible without understanding the ramifications of the Great Proletarian Cultural Revolution (1966-1976). This course considers this tumultuous episode as a field of historical research and conceptual inquiry. This course critically examines a wide variety of sources, including scholarly accounts, official documents, personal memoirs, oral histories, and literary works.

Prerequisite: EAS105H1

Breadth Requirements: Society and its Institutions (3)

EAS365H1 - Classical Japanese Part II

Hours: 24S

Introduction to classical Japanese, followed by readings of various short works by classical authors. Covers the second half of EAS362Y1. Students must seek permission of the instructor to be placed in the course.

Prerequisite: EAS363H1, EAS220Y1

Exclusion: EAS362Y1

Breadth Requirements: Creative and Cultural Representations (1)

EAS370H1 - Media, Cultural Citizenship, and the Korean Diaspora

Hours: 24L

This course explores how cultural and ethnic identity in diaspora is constructed in media texts, and how the politics of national identity target various publics. We will examine the work of particular filmmakers, diasporic

Korean celebrities in Korea, and digital platforms for producing public visibility, such as YouTube.

Prerequisite: [EAS105H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS372H1 - The Postwar, Cold War and Divided Koreas

Hours: 24L

This research-oriented course examines the divided history of the Korean peninsula since 1945 in the context of the global war. Examines key debates in the history of contemporary Korea, beginning with the Korean war and ending with the contemporary culture of division.

Prerequisite: [EAS105H1](#)

Exclusion: [EAS372Y1](#)

Recommended Preparation: [EAS271H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS373H1 - Revolutionaries, Rebels, and Dissent in Korea's Long 20th Century

Hours: 24L

Korea's long 20th century experienced many tumultuous moments of dissent, rebellion, and revolution. When, why, and how do specific people dissent? This course devotes each weekly meeting to the study of a single moment of dissent, ranging from the peasant uprisings of the 1890s to labor activities in the colonial period and from anti-regime student movements in the 1970s to recent social movements and candlelight demonstrations.

Prerequisite: [EAS105H1](#)

Recommended Preparation: [EAS271H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS374H1 - Modern Japan and the Colonial Question

Hours: 24L

This course interrogates the history of modern Japan from the perspective of Japan's colonial exploits in East Asia. The course also addresses the political economy and culture of the military occupation of Japan by the Supreme Command of the Allied Powers. Texts from economics, philosophy, and literature will be used.

Prerequisite: [EAS105H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS375H1 - Postwar Japan: Crisis, Apocalypse

Hours: 24L

This course explores the history of the postwar period in Japan and its former colonies in order to delineate a way to think of the idea of apocalypse in relation to crisis in advanced capitalism. Through an examination of the history of capitalist crisis in postwar Japan, the course investigates themes of apocalypse in atomic-bomb literature, television, Godzilla, radical students movements, ecological-industrial disasters, worker art movements, debates on modernity and fascism, avant-garde theatre, popular music, religious movements, nationalism, populism, and the so-called "ageing population" problem. The course revolves around texts by philosophers, economists, novelists, essayists, artists, and critics, as well as film and audio recordings.

Prerequisite: [EAS105H1](#)

Exclusion: [EAS347H1](#), [EAS374H1](#)

Recommended Preparation: [EAS247H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS378H1 - Urban Life in Early Modern Japan

Hours: 24L

An exploration of most important cities of Tokugawa Japan, which were among the largest of the early modern world, and home to vibrant urban culture and economic activity. The texts include buildings, maps, paintings, prints, film and novels.

Prerequisite: [EAS105H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS380H1 - Writing Women in Premodern China

Hours: 24L

A survey of premodern Chinese texts (before 1700) in translation, written by women, about women, and in the voices of women, across a variety of genres drawn from literature, history, philosophy, and religion. The texts provide opportunities to explore how gender was constructed in Chinese societies, how women were defined and constrained by texts, and how women used

writing to express themselves, often in resistance to dominant modes of representation.

Prerequisite: [EAS105H1](#)

Recommended Preparation: [EAS209H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS381H1 - Moral Agency in Chinese Thought

Hours: 24L

The course explores selected Chinese philosophical texts addressing moral motivation, cultivation, reasoning, and action to examine their treatment of how human beings can become morally virtuous and live an ethically ideal or fulfilling life. Topics discussed will include people's typical moral dispositions; morally relevant features of people's nature (*xìng*); the role of the heart (*xīn*) in guiding action; the role of desire, emotion, and normative judgment in motivation and action; methods of moral education and training; the nature and function of virtue; and the structure of action. In different years, the course may focus on classical texts such as the *Mòzǐ*, *Mèngzǐ*, *Xúnzǐ*, and *Zhuāngzǐ* or on later Confucian figures from the Sòng, Míng, and Qīng dynasties, such as Chéng Yí, Chéng Hào, Zhū Xī, Lù Xiàngshān, Wáng Yángmíng, and Dài Zhèn.

Prerequisite: [EAS105H1](#)/ [EAS241H1](#)/ [PHL237H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

EAS384H1 - Medieval Japan

Hours: 24L

In popular culture medieval Japan often figures as an era of unrelenting warfare, in which only samurai mattered. This course offers more balanced view of what many historians regard as the most volatile, yet also most creative, era in Japanese history. The course examines the era from 1100-1500 with an eye to understanding the place of warriors, but also to explaining the incredible cultural advances of the period, which gave rise to many of the arts for which Japanese culture is renowned.

Prerequisite: [EAS103H1](#)/ [EAS105H1](#)

Recommended Preparation: [EAS245H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS386H1 - Culture of Nature in China

Hours: 24L

The course examines the cultural practice of nature in China's past and present, focusing on literary, artistic, spiritual, ethical, political, and scientific aspects of human-nature relation. Through scholarly works and primary sources, the course inquires into the cultural politics of human-nature entanglements.

Prerequisite: [EAS105H1](#)

Exclusion: [EAS386Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

EAS387H1 - Images and Ideas in Chinese Art

Hours: 24L

Making use of the Royal Ontario Museum's excellent Chinese art collection, this object-based and oriented seminar encourages exploration of the ideas and practices behind works of Chinese art. We examine art and artifacts in relation to their social environment and historical contexts, paying close attention to such issues as political practices, power and authority, identity, gender, and materiality. Other relevant topics include patronage, audience, religious quests, and literati culture. Depending on special Chinese exhibitions of the year at the ROM, the course may incorporate case-studies of relevant exhibition content.

Prerequisite: [EAS105H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS388H1 - Asian/North American Feminist Issues

Hours: 24L

A transpacific examination of gender and sexuality issues that have directly and indirectly affected Asians and Asian North Americans. Considers, for example, the gender and sexual representations of Asia in North America, the psycho-history of the "Yellow Peril" and its ramifications beyond Asian North Americans, and the history of immigration, nationalism, colonialism, war, and the militarized empire.

Prerequisite: [EAS105H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS389H1 - Dangerous Bodies: Crossings in Gender and Sexuality Studies

Hours: 24L

This course examines non-conforming bodies and technologies of self-making that defy gender and racial norms in 20th and 21st century China and Asian America. Through different cross-dressing and other crossing practices in literature, fashion, and history, we explore shifting social meanings of the body, masculinity, femininity, and trans-becoming.

Prerequisite: EAS105H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS391H1 - Transnational East Asian Cinema

Hours: 48L

This course investigates cinema's border-crossing modes of production, reception, and circulation, to uncover the ways in which the study of cinema enriches current theories and approaches to the transnational. Films and sites to be explored may include Asian co-productions (documentaries, feature films, shorts), transnational genre adaptations (e.g., *The Ring/Ringu*), and film festivals.

Prerequisite: EAS105H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS392H1 - East Asian Television

Hours: 24L

This course approaches television and televisuality in regional, transnational, and global perspectives. Beginning with the cold war histories of transmission infrastructures in the Asia Pacific, continuing with an exploration of key television shows and genres that support and resist the nation-building ethos of the medium, the course will introduce students to the history and ideology of televisuality in East Asia.

Prerequisite: EAS105H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS393H1 - Chinese Buddhism

Hours: 24L

Topics vary according to the instructor's interests.

Prerequisite: EAS105H1

Breadth Requirements: Thought, Belief and Behaviour (2)

EAS394H1 - Film Culture in Contemporary China

Hours: 36L

This course discusses documentary film and DV culture in contemporary China as forms of cultural, communal, and political practices. We focus on films and videos that seek to address important global issues such as peace, environment, and climate change in cross-media approach and in personal tone. We ask: What new tendencies are there in the films and videos? Where can we trace them back to? What fresh possibilities do they bring forth to our aesthetic and public life?

Prerequisite: EAS105H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS395Y0 - Topics in East Asian Studies (Summer Abroad)

This course allows students to pursue the specialized study of topics tailored to the research and study opportunities available in Hong Kong and the expertise and interests of the instructor. Available only in the Woodsworth College Hong Kong Summer Program.

Prerequisite: EAS105H1

EAS396H1 - Special Topics in East Asian Studies

Hours: 24L

A study of Chinese, Japanese or Korean culture, history and/or literature. Content depends on the instructor. When offered, the course will have a subtitle that describes its content.

Prerequisite: EAS105H1

EAS398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

Prerequisite: [EAS105H1](#)

EAS398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

Prerequisite: [EAS105H1](#)

EAS406Y1 - Thinking about Things: Material Culture in East Asia

Hours: 48S

This seminar explores theories of the object, the histories of objects in East Asia, and critical thinking about the process of research. Through theoretical readings, class, and individual research projects, the seminar asks how to formulate research questions, use the internet and other resources, and present discoveries in a class conference.

Prerequisite: [EAS209H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS407H1 - Textual Analysis of Classical Chinese Philosophy

Hours: 24S

Readings from ancient and medieval Chinese philosophy. Beginning with linguistic (especially semantic) analysis of key words, structure and meaning of sentences, paragraphs, and texts as a whole, which forms the basis for philosophical examination.

Prerequisite: [EAS209H1](#) and [PHL237H1](#)/ [EAS241H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

EAS408H1 - Modern Taiwanese Literature

Hours: 24S

A general survey of modern Taiwanese literature from 1949 to the present. It examines issues central to understanding the Taiwanese literary culture, such as historical/cultural context, oral/written language, self-identification, gender, and human rights.

Prerequisite: [EAS209H1](#) and 2.0 credits in literature

Breadth Requirements: Creative and Cultural Representations (1)

EAS409H1 - Cities in Premodern China

Hours: 24S

Focusing on selected Chinese cities from the earliest history to 1800 CE, this course introduces students to different aspects of urban life and its representations in literature and history.

Prerequisite: [EAS209H1](#)

Exclusion: [EAS367H1](#)

Recommended Preparation: Some familiarity with Chinese history in the middle period

Breadth Requirements: Creative and Cultural Representations (1)

EAS412H1 - Technology and Material Cultures of Ancient China

Hours: 24P

This course introduces the technology and material culture of prehistoric and Bronze-Age China. Offers students an understanding of the development of ancient technologies (e.g. bronze, jade, and lacquer) and associated ways of life from archaeological perspectives.

Prerequisite: [EAS209H1](#) and [EAS312H1](#)/ [EAS411H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS417H1 - Korean Literary Translation Workshop

Hours: 24L

A workshop format is used to explore problems encountered when translating Korean literary texts (fiction and poetry) into English. Practice with a variety of texts is accompanied by readings in translation theory to refine

our understanding of translation and enrich our experience working with historical forms of Korean and English.

Prerequisite: [EAS209H1](#) and [EAS310Y1](#) or its equivalent

Recommended Preparation: [EAS410Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS418H1 - Chinese Art Theories

Hours: 24S

This course focuses on theories of Chinese arts by critically analyzing various theoretical texts and treatises on music, painting, calligraphy, and literature as recorded in the Classics.

Prerequisite: [EAS209H1](#)

Recommended Preparation: Knowledge of Chinese language

Breadth Requirements: Creative and Cultural Representations (1)

EAS419H1 - Chinese Cultural Studies Seminar: May Fourth

Hours: 24L

This seminar focuses on the May Fourth Movement in early twentieth century China. Taking May Fourth as a case study and a vantage point, this class enables a critical understanding of various aspects of the cultural and intellectual life in the early Republican period.

Prerequisite: [EAS209H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS420H1 - Travels, Travelers, and Travel Accounts in Asia

Hours: 24S

This seminar focuses on the circulation of people, words, and ideas throughout Asia before 1900, as we try to understand the worlds travelers both sought and encountered. Texts include travel diaries and geographical narratives.

Prerequisite: [EAS209H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS421H1 - History of the Chinese Book

Hours: 24L

This seminar traces the changing forms of the Chinese book from the early 'page' to modern print editions. We begin by considering the Chinese writing system and the bones, shells, bamboo and silk on which it was first inscribed. Next, we examine the specific technologies associated with medieval manuscript and early print cultures, many of which were associated with Buddhist textual production. Along the way we consider the social dimensions of Chinese book culture by considering the scribes, binders, engravers, printers, publishers, distributors and readers who produced, circulated and consumed Chinese books. The course draws on the methods and theories developed in diverse fields of study, including book history, philology, literacy studies and archive studies, to examine different chapters in the history of the Chinese book.

Prerequisite: [EAS209H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS427H1 - The Kyoto School: Now, Then, and To Come

Hours: 24S

This course begins with a careful study of a group of modern Japanese thinkers (Nishida, Tanabe, Nishitani) known as the Kyoto School (Kyoto Gaku-ha) who developed their original philosophies by creatively combining the spiritual and intellectual traditions of Mahayana Buddhism with the Western philosophical tradition, most notably with the work of Hegel and Heidegger. We focus on the concept of "Absolute Nothingness" and how it is similar and different to Western ontologies of Being as well as what it implies for political, psychological, spiritual, and artistic life. We also study significant criticisms of the Kyoto School (Tosaka, Miki, et al.) and re-evaluate how such a project persists today as well as how it might make a claim on possible futures.

Prerequisite: [EAS209H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

EAS431H1 - Advanced Seminar in Japanese Cinema

Hours: 24S

The focus ranges from the examination of cross-cultural theoretical problems (such as Orientalism) to a director-based focus, from the examination of genre (such as documentary or the category of genre itself) to the way film intersects with other cultural forms and technologies (such as video and new media).

Prerequisite: [EAS209H1](#) and [EAS242H1](#)/ [EAS243H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS432H1 - Korean Cultural Studies Seminar

Hours: 24S

This seminar provides an opportunity for in-depth reading and research into a specific topic in the cultural and intellectual history of Korea. Topics will vary each semester but may include colonial period print culture, the New Woman, the history of photography, and modernism.

Prerequisite: [EAS209H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS433H1 - Chinese Cultural Studies Seminar: Land

Hours: 24S

Land as part of the Earth is repeatedly reconfigured in China throughout the 20th century, first by the Reformists and pioneers of the New Culture, then by geoscientists and writers, as well as by economic planners and social thinkers of recent decades. This seminar provides a critical review of this multi-dimensional cultural and conceptual practice of land, as well as its possible role in the era of climate change.

Prerequisite: [EAS209H1](#)

Recommended Preparation: [EAS289H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS439H1 - The Global Bildungsroman: Narratives of Development, Time, and Colonialism

Hours: 24S

This course studies Bildungsroman, the story of an individual's coming of age, in the context of twentieth-century political, cultural, and social developments of imperialism, anti-colonialism, human rights discourse, and

globalization. Our focus will be novels from the (post)colonial world and theoretical essays on the Bildungsroman form. The course aims to provide a model for rethinking literary history and genres within a global context. Authors may include Yi Kwangsu, Wu Zhouliu, Pramodya Ananta Toer, Kang Younghill, Tsitsi Dangarembga, Camara Laye, amongst others.

Prerequisite: [EAS209H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS444H1 - The City, Body and Text in Modern Japanese Literature

Hours: 24S

This course examines how the city and body exert formative forces on the text, and how the practice of writing and reading texts informs the ways we, as corporeal beings, experience the city as manifested in the 20th-century Japanese literature.

Prerequisite: [EAS209H1](#), [EAS218H1](#)/ [EAS231H1](#)/ [EAS235H1](#)/ [EAS251H1](#)/ [EAS256H1](#)/ [EAS257H1](#)/ [EAS263H1](#)/ [EAS279H1](#)/ [EAS284Y1](#)/ [EAS308H1](#)/ [EAS309H1](#)/ [EAS327H1](#)/ [EAS330H1](#)/ [EAS333H1](#)/ [EAS334H1](#)/ [EAS334Y1](#)/ [EAS408H1](#)/ [EAS409H1](#)/ [EAS417H1](#)/ [EAS419H1](#)/ [EAS467H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS446H1 - The Communist Hypothesis and Asia

Hours: 24L

In recent years, the basic hypotheses of Communism have begun to be thought anew, precisely because of the demise of the Soviet Union and the rise of capitalism in communist regimes (i.e., China). Taking up recent writings by Alain Badiou, Jodi Dean, Gavin Walker, Fred Jameson and a host of other contemporary thinkers, this course asks again: what is the communist hypothesis in today's Asia and how can it help us to imagine a different Asia?

Prerequisite: [EAS209H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS447H1 - Sound Studies and Modern Japan

Hours: 24S

This seminar explores the growing field of sound studies with particular attention given to auditory histories and cultures in modern Japan and the prewar Japanese empire in East Asia. We study the interrelationships between industrialization, mass culture, colonialism, and techniques and processes of reproducing sound in order to specify the status of acoustic and sonic mediation in everyday life in a capitalist commodity economy.

Prerequisite: [EAS209H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS448H1 - East Asian Studies Archive: Language, Number, Money

Hours: 24S

This course investigates salient problems of the historical archive in relation to the experience of modernity in East Asian societies. What is the meaning of the modern archive in East Asia? How is the knowledge of the modern archive produced in relation to the production of quantitative knowledge (e.g., in demographic or economic statistics)? How should we approach the relationship between number and language? How is this knowledge transformed into state knowledge as well as into what we call common sense?

Prerequisite: [EAS209H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS449H1 - Future, Architecture, Japan

Hours: 24L

Examination of how the future is imagined and materialized in architectural theory and practice throughout Japanese history. From classical temples to modernist experiments of the Metabolist movement to contemporary works by Isozaki Arata and Atelier Bow Wow, we study built and unbuilt structures as theories of the future.

Prerequisite: [EAS209H1](#)/ [ARC221H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS450H1 - History of the USA in the Pacific, the 19th century

Hours: 24S

This course examines the growth of the American empire in Asia Pacific during the late 19th century. It examines

historical writings concerning Japan, Korea, Hawaii, the Philippines, and China.

Prerequisite: [EAS209H1](#) or permission from the course instructor

Recommended Preparation: [EAS209H1](#)/ [HIS271Y1](#)/ [HIS280Y1](#)/ [HIS285H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS452H1 - The Korean War, Global Cold Wars, and Decolonization

Hours: 24S

This course examines the political economic, racial, and cultural dimensions of the Korean war in a global context. It examines how the Korean War consolidated Cold War structures and discourse on both sides of the conflict by examining such issues as the United Nations, multiculturalism, decolonization, atomic weapons, and military industrialization. In this writing intensive course, students will be expected to write a major research paper.

Prerequisite: [EAS209H1](#) or permission from the course instructor

Recommended Preparation: [EAS209H1](#)/ [HIS271Y1](#)/ [HIS280Y1](#)/ [HIS285H1](#)/ [HIS344H1](#)/ [HIS377H1](#)

Breadth Requirements: Society and its Institutions (3)

EAS454H1 - Modern Chinese Historiography

Hours: 24S

A selective survey of major historiographical problems and debates in the fields of late 19th and 20th century Chinese history. Course readings will include both theoretical and historical materials.

Prerequisite: [EAS209H1](#)

Recommended Preparation: [EAS209H1](#), [HIS280Y1](#)

Breadth Requirements: Society and its Institutions (3)

EAS455H1 - Classical Confucianism

Hours: 24S

This course explores the historical and systematic aspects of classical Confucianism, which is fundamental for understanding Chinese philosophy and culture. The historical part discusses the development of the Confucian doctrine from Confucius to his generations of disciples. The systematic part engages issues such as emotion, art, poetry, morality and virtues, political philosophy, and knowledge and reality.

Prerequisite: EAS209H1 and EAS241H1/ PHL237H1
Breadth Requirements: Thought, Belief and Behaviour (2)

EAS456H1 - Japan as seen by ?: Reference, Apparatus, Operation

Hours: 24S

The course discusses how images of Japan, charged with varied degrees of desire for empirical knowledge, have contributed to contemporary novels and plays by David Mitchell, Ruth L. Ozeki, David Mamet, Joy Kogawa, Kazuo Ishiguro, Marguerite Duras, and David Hwang.

Prerequisite: EAS209H1, or permission of the instructor.
Breadth Requirements: Creative and Cultural Representations (1)

EAS457H1 - Modern Japanese Historiography

Hours: 24S

An analysis of contemporary monographs on modern Japanese history. This course offers a critical survey of existing methodologies of and approaches to writing about modern Japan.

Prerequisite: EAS209H1 and EAS247H1
Breadth Requirements: Society and its Institutions (3)

EAS458H1 - Classical Chinese II

Previous Course Number: EAS306Y1
Hours: 24S

As a continuation of EAS358Y1 (formerly EAS206Y1), this course helps students to gain in-depth control of grammatical structures of classical Chinese and to read texts with greater ease. Requirements include a major research/translation project. Open only to EAS majors and specialists.

Prerequisite: EAS358Y1 (minimum 79%)
Exclusion: EAS306Y1, EAS335Y1
Recommended Preparation: Three or more years of Modern Standard Chinese
Breadth Requirements: Creative and Cultural Representations (1)

EAS459Y1 - Rethinking the Cold War in East Asia

Hours: 48S

This research course examines the ways our historical understanding of the Cold War in East Asia has shifted over the last twenty years. Focusing primarily on the divided Korean peninsula where it can be said the Cold War still rages, the course examines the mutual constitution of two competing regional political economies rooted in a shared commitment to developmentalism.

Prerequisite: EAS209H1 and EAS271H1
Breadth Requirements: Society and its Institutions (3)

EAS466H1 - Rethinking North Korean History

Hours: 36S

This essay-driven course explores the complexity of examining North Korean history by using comparative methods developed through the study of other socialist societies and theories of everyday life.

Prerequisite: EAS209H1, EAS271H1
Breadth Requirements: Society and its Institutions (3)

EAS467H1 - Photographic Narratives of Japan

Hours: 24S

Uses seminal theoretical literature, photo roman (by, e.g., Abe, Nakagami) and narratives about photography (by, e.g., Tanizaki, Mishima, Kanai) to examine the rhetorical complicity and coercion of the two modes of representation which emerged in the modern and nationalistic age, and persist, in the wake of the newer media, as dominant registers of everyday life and departures from there.

Prerequisite: EAS209H1 & at least one course in humanities (literature, art history, philosophy) or reading proficiency in Japanese
Breadth Requirements: Creative and Cultural Representations (1)

EAS468H1 - Democratic Struggles in Korea

Hours: 24S

This seminar examines resistance, struggles, strikes and movements seen as constituting a troubled history of democracy across Korea's long 20th century.

Prerequisite: EAS209H1, EAS271H1

Breadth Requirements: Society and its Institutions (3)

EAS471H1 - Issues in the Political Economy of South Korea

Hours: 24S

A course designed to guide students toward a research paper on a selected topic of interest on the postwar political economy of South Korea.

Prerequisite: EAS209H1 and EAS271H1

Exclusion: EAS471Y1

Breadth Requirements: Society and its Institutions (3)

EAS473H1 - Modern Korean Historiography

Hours: 24S

An examination of recent literature in the modern Korean history field, focusing especially on the late 19th and 20th centuries.

Prerequisite: EAS209H1 and EAS271H1

Breadth Requirements: Society and its Institutions (3)

EAS474H1 - U.S. and Canada's Wars in Asia

Hours: 24S

This course examines the cultural and social legacies of the 19th- and 20th-century hot and cold wars fought by the U.S. and Canada in different parts of Asia. It explores film, literature, and other cultural products that came out of the transpacific violence and its aftermath.

Prerequisite: EAS209H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS475Y1 - Issues in East Asian Historiography

Hours: 48L

This course analyses select topics in the historiography of East Asian. Students are expected to write a major research paper.

Prerequisite: EAS209H1

Breadth Requirements: Society and its Institutions (3)

EAS476H1 - Social Protest in Modern East Asia

Hours: 24L

This course explores cases of social protests in 19th and 20th century China, Japan, and Korea. Students will read and write about specific case studies of anti-government student protests, labor actions, anti-colonial movements, women's rights activism, and peasant rebellions.

Prerequisite: EAS209H1

Breadth Requirements: Society and its Institutions (3)

EAS477H1 - Samurai Culture

Hours: 24S

An intensive seminar exploring one of Japan's most recognizable figures, the samurai. This course investigates the historical reality of warrior life along with the legends, with focus on the ways in the warrior's world found expression in religion, art, and literature.

Prerequisite: EAS209H1, EAS245H1/ EAS246H1/
EAS247H1

Exclusion: EAS478Y1

Breadth Requirements: Society and its Institutions (3)

EAS479H1 - Ecocriticism

Hours: 24L

The course aims to establish students' ability to engage with core ecological agendas with methodology of cultural history and literary and visual analysis.

Prerequisite: EAS209H1

Recommended Preparation: At least one 300-level EAS course

Breadth Requirements: Society and its Institutions (3)

EAS486H1 - Readings in Mahāyāna Sūtra Literature

Hours: 24S

This seminar explores the key literary, doctrinal and ritual innovations of the Mahāyāna Buddhist tradition as it unfolded in the first few centuries of the Common Era. The semester will begin with a consideration of the origins of the Mahāyāna in early India, and end in medieval Mahāyāna communities of East Asia and Tibet. Along the way we will conduct close readings of several important Mahāyāna works (sūtras, commentaries, ritual manuals) in order to explore key elements in the development of the Great Vehicle as it was transmitted and transformed across Buddhist Asia.

Prerequisite: EAS209H1

Breadth Requirements: Thought, Belief and Behaviour (2)

EAS488H1 - Fandom, Transmedia, and the Korean Wave

Hours: 24S

This course investigates the transmedia forms and reception contexts of what is now known as hallyu or "the Korean wave." Topics include fan subjectivity and the "global popular," across a broad array of texts, including music, feature films, television dramas, fan blogs, and internet video. This seminar considers how popular media shape collective identity, and explores the connections between activism, mass media, commodity culture, and their corresponding affective registers, bridging fan studies, media studies, and contemporary Korean cultural studies.

Prerequisite: EAS209H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS489H1 - Advanced Seminar in Asian Media Studies

Hours: 24S

Topics include: histories of media infrastructures, material culture, geopolitics of colonialism, imperialism, and regionalism, institutional histories of media production, analyses of popular and industrial media practices, questions of interface, platforms, circulation, and reception, and the constitutive role of media in shaping notions of modernity, publicity, and politics.

Prerequisite: EAS209H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS496H1 - Advanced Topics in East Asian Studies

Hours: 24S

An in-depth study of Chinese, Japanese or Korean culture, history and/or literature. Content depends on the instructor. When offered, the course will have a subtitle that describes its content.

Prerequisite: EAS209H1

EAS Independent Studies

EAS299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

EAS399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

EAS434H1 - Independent Studies

A scholarly project chosen by the student, approved by the Department, and supervised by one of its instructors. Consult the website (eas.utoronto.ca) for more information. Not eligible for CR/NCR option.

Prerequisite: 5.0 EAS credits, including EAS209H1

EAS435H1 - Independent Studies

A scholarly project chosen by the student, approved by the Department, and supervised by one of its instructors. Consult the website (eas.utoronto.ca) for more information. Not eligible for CR/NCR option.

Prerequisite: 5.0 EAS credits, including EAS209H1

EAS436Y1 - Independent Studies

A scholarly project chosen by the student, approved by the Department, and supervised by one of its instructors. Consult the website (eas.utoronto.ca) for more information. Not eligible for CR/NCR option.

Prerequisite: 5.0 EAS credits, including [EAS209H1](#)

Chinese

EAS100Y1 - Modern Standard Chinese I

Hours: 48L/72T

Intended for students with no background in Mandarin or any Chinese dialect, this course provides an introduction to modern standard Chinese as a foreign/second language. The course consists of mandatory lectures and tutorials. Students study a minimum of 450 Chinese characters. Students must go through screening process conducted by the Department. See www.eas.utoronto.ca/languages/chinese for details.

Prerequisite: Students must go through screening process conducted by the Department. See <https://www.eas.utoronto.ca/languages/chinese> for details.

Exclusion: [EAS101Y1](#), [LGGA60H3](#), [LGGA61H3](#), [LGGB60H3](#), [LGGB61H3](#), [CHI101H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS101Y1 - Modern Chinese I for Students with Prior Background

Hours: 48L/48T

This course is designed for students who understand elementary Mandarin or any Chinese dialect. The course consists of mandatory lectures and tutorials. Students will learn 600 characters. Students must go through placement process conducted by the Department. See www.eas.utoronto.ca/languages/chinese for details.

Prerequisite: Students must go through placement process conducted by the Department. See <https://www.eas.utoronto.ca/languages/chinese> for details.

Exclusion: [EAS100Y1](#), [EAS200Y1](#), [LGGA60H3](#), [LGGA61H3](#), [LGGA64H3](#), [LGGA65H3](#), [LGGB60H3](#), [LGGB61H3](#), [CHI101H5](#), [CHI103H5](#), [CHI104H5](#), [CHI203H5](#), [CHI204H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS200Y1 - Modern Standard Chinese II

Hours: 96L

This course is a continuation of [EAS100Y1](#). Students learn major grammatical structures which are not introduced in the first year and expand their vocabulary. Students who do not meet the prerequisite must go through a placement process conducted by the Department. See www.eas.utoronto.ca/languages/chinese for details.

Prerequisite: [EAS100Y1](#) (minimum grade 67%)/equivalent as determined by placement process.

Exclusion: [EAS101Y1](#), [EAS201H1](#), [LGGB60H3](#), [LGGB61H3](#), [LGGB62H3](#), [LGGB63H3](#), [CHI203H5](#), [CHI204H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS201H1 - Modern Chinese II for Students with Prior Background

Previous Course Number: EAS201Y1

Hours: 48L

This course is a continuation of [EAS101Y1](#). It focuses on development of students' listening, speaking, reading, and writing skills at an intermediate low level. Students who do not meet the prerequisite must go through placement process conducted by the Department. See www.eas.utoronto.ca/languages/chinese for details.

Prerequisite: [EAS101Y1](#) (minimum 67%)/equivalent as determined by placement process.

Exclusion: [EAS200Y1](#), [LGGB60H3](#), [LGGB61H3](#), [LGGB62H3](#), [LGGB63H3](#), [CHI203H5](#), [CHI204H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS300Y1 - Modern Standard Chinese III

Hours: 96L/36T

This high intermediate-level course is a continuation of [EAS200Y1](#). Students learn to read short texts which deal with cultural and social topics, compose paragraph-length essays, and converse in social situations which require exchanges of basic information and generate interpretations. Students who do not meet the prerequisite must go through placement process conducted by the Department. See www.eas.utoronto.ca/languages/chinese for details.

Prerequisite: EAS200Y1 (minimum 70%)/ equivalent as determined by placement process.

Exclusion: LGGC60H3, LGGC61H3, LGGB62H3, LGGB63H3, LGGC62H3, LGGC63H3, CHI303H5, CHI304H5

Breadth Requirements: Creative and Cultural Representations (1)

EAS301H1 - Modern Standard Chinese III for Students with Prior Background

Hours: 48L

This course is the equivalent of the second half of EAS300Y1. It is for students who have either completed successfully EAS201H1 or reached the intermediate-mid level in speaking, listening, reading and writing by prior study. Successful completion of the course fulfills the prerequisite for EAS401H1, EAS402H1, or EAS404H1.

Prerequisite: EAS201H1 (minimum 70%)/equivalent as determined by placement process.

Exclusion: EAS300Y1, LGGC60H3, LGGC61H3, LGGB62H3, LGGB63H3, CHI303H5, CHI304H5

Breadth Requirements: Creative and Cultural Representations (1)

EAS401H1 - Modern Standard Chinese IVa

Hours: 48L

This course aims to develop students' abilities at an advanced level, with a focus on reading of fictional and/or journalistic writings. Students will improve their reading comprehension, strengthen writing skills, and advance speaking and listening skills through class discussions and oral presentations. Students who do not meet the prerequisite must go through placement process conducted by the Department. See www.eas.utoronto.ca/languages/chinese for details.

Prerequisite: EAS300Y1/ EAS301H1 (minimum 73%)/ equivalent as determined by placement process

Exclusion: CHI411H5 and ECTB61H3

Breadth Requirements: Creative and Cultural Representations (1)

EAS402H1 - Modern Standard Chinese IVb

Hours: 48L/24T

An advanced Chinese language course which explores major concerns in contemporary China, including mass

consumption, Western influences and technological innovation. Students will improve their reading comprehension, strengthen their writing skills and, importantly, advance their speaking and listening abilities through debate exercises. Students who do not meet the prerequisite must go through placement process conducted by the Department. See <https://www.eas.utoronto.ca/languages/chinese> for details.

Prerequisite: EAS300Y1/ EAS301H1 (minimum 73%)/ equivalent as determined by placement process

Exclusion: CHI411H5 and ECTB61H3

Breadth Requirements: Creative and Cultural Representations (1)

EAS404H1 - Business Chinese

Hours: 48L/24T

This course aims to assist students with upgrading their language proficiency for professional purposes. This advanced Chinese language course focuses on 1) business terms and expressions and 2) formal or semiformal discourse in business. Students who do not meet the prerequisite must go through placement process conducted by the Department. See <https://www.eas.utoronto.ca/languages/chinese> for details.

Prerequisite: EAS300Y1/ EAS301H1 (minimum 73%)/ equivalent as determined by placement process

Exclusion: CHI411H5 and ECTB61H3

Breadth Requirements: Creative and Cultural Representations (1)

Japanese

EAS120Y1 - Modern Standard Japanese I

Hours: 48L/48T

This course is for students with no or a very limited background in Japanese. Students must go through screening process conducted by the Department. See www.eas.utoronto.ca/languages/japanese/ for details. Not eligible for CR/NCR option.

Prerequisite: Students must go through screening process conducted by the Department. See <https://www.eas.utoronto.ca/languages/japanese/> for details.

Exclusion: EAS121H1, EAS122Y0, LGGA80H3, LGGA81H3

Recommended Preparation: Learning the Japanese alphabets (hiragana & katakana)

Breadth Requirements: Creative and Cultural Representations (1)

EAS121H1 - Japanese I for Students with Prior Background

Hours: 24L/24T

This course is equivalent to the second half of [EAS120Y1](#) for students with some background in the Japanese language. Students must go through placement process conducted by the Department. See www.eas.utoronto.ca/languages/japanese/ for details. Not eligible for CR/NCR option.

Prerequisite: Students must go through placement process conducted by the Department. See <https://www.eas.utoronto.ca/languages/japanese/> for details.

Exclusion: EAS120Y1, EAS222Y0, LGGA81H3

Breadth Requirements: Creative and Cultural Representations (1)

EAS220Y1 - Modern Standard Japanese II

Hours: 48L/48T

This is an advanced beginner level language course for those who completed [EAS120Y1](#) or [EAS121H1](#) with a minimum grade of 67%. Students who do not meet the prerequisite must go through placement process conducted by the Department. See <https://www.eas.utoronto.ca/languages/japanese/> for details.

Prerequisite: [EAS120Y1](#) (minimum of 67%)/ [EAS121H1](#) (minimum 67%)/equivalent as determined by placement process. Students who did not take the prerequisite in the preceding academic year must take the placement test.

Exclusion: [EAS223Y0](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS221H1 - Modern Standard Japanese II for Students with Prior Background

Hours: 24L/24T

This course is equivalent to the second half of [EAS220Y1](#). Designed for those who have a good foundation of lower beginners' grammar, vocabulary, and kanji knowledge and have not yet acquired the proficiency required to take [EAS320Y1](#). Students must go through placement process

conducted by the Department. See www.eas.utoronto.ca/languages/japanese/ for details.

Prerequisite: Placement process

Exclusion: [EAS220Y1](#)/ [EAS223Y0](#)

Recommended Preparation: The first half of the content covered in [EAS220Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS320Y1 - Modern Standard Japanese III

Hours: 96S

This is a lower intermediate level course for those who have completed [EAS220Y1](#) with a minimum grade of 70%. Students who do not meet the prerequisite must go through placement process conducted by the Department. See <https://www.eas.utoronto.ca/languages/japanese/> for details.

Prerequisite: [EAS220Y1](#) (70% minimum)/equivalent as determined by placement process. Students who did not take the prerequisite in the preceding academic year must take the placement test.

Exclusion: [EAS322Y0](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS460H1 - Modern Standard Japanese IVa

Hours: 48S

This is an upper intermediate level Japanese course that focuses on oral/aural communication. Native or near-native speakers are not permitted to take this course. Students who do not meet the prerequisite must go through placement process conducted by the Department. See <https://www.eas.utoronto.ca/languages/japanese/> for details.

Prerequisite: [EAS320Y1](#) (70% minimum)/equivalent as determined by placement process. Students who did not take the prerequisite in the preceding academic year must take the placement test.

Exclusion: [EAS460Y1](#), [EAS463Y0](#)

Breadth Requirements: Creative and Cultural Representations (1)

EAS461H1 - Modern Standard Japanese IVb

Hours: 48S

This is an upper intermediate level Japanese course that focuses on reading and writing skills. Native or near-native speakers are not permitted to take this course. Students who do not meet the prerequisite must go through placement process conducted by the Department. See <https://www.eas.utoronto.ca/languages/japanese> for details.

Prerequisite: EAS320Y1 (70% minimum)/equivalent as determined by placement process. Students who did not take the prerequisite in the preceding academic year must take the placement test.

Exclusion: EAS461Y1, EAS463Y0

Breadth Requirements: Creative and Cultural Representations (1)

Korean

EAS110Y1 - Modern Standard Korean I

Hours: 48L/72T

This course is designed to help students build communication skills in the Korean language. Through an integration of listening, speaking, reading and writing, it aims to provide a solid foundation in beginning-level Korean. This course assumes that students do not have any prior knowledge of Korean. Students must go through screening process conducted by the Department. See <https://www.eas.utoronto.ca/languages/korean> for details.

Prerequisite: Students must go through screening process conducted by the Department. See <https://www.eas.utoronto.ca/languages/korean> for details.

Exclusion: EAS211Y1

Breadth Requirements: Creative and Cultural Representations (1)

EAS210Y1 - Modern Standard Korean II

Hours: 48L/72T

As a continuation of EAS110Y1, this course is designed to help students improve their skills in the Korean language. Students in this course are expected to perform basic communicative functions, read and write paragraph-level texts, and conjugate verbs/adjectives accurately. Students who do not meet the prerequisite must go through placement process conducted by the Department. See <https://www.eas.utoronto.ca/languages/korean> for details.

Prerequisite: EAS110Y1 (63% minimum)/ equivalent as determined by the Korean placement interview. Students who do not meet the prerequisite must go through placement process conducted by the Department. See <https://www.eas.utoronto.ca/languages/korean> for

details.

Exclusion: EAS211Y1, EAS212H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS211Y1 - Accelerated Modern Standard Korean I & II

Hours: 96L

Covering both EAS110Y1 and EAS210Y1, the course is ideal for self-motivated students who enjoy fast-paced language learning, students with a passion for Korean films and television, students with some listening and speaking skills from prior study or family background, and students taking the full four-year course series. Successful completion of the course fulfils the prerequisite for EAS310Y1. Students must go through screening process conducted by the Department. See www.eas.utoronto.ca/languages/korean for details.

Prerequisite: Students must go through screening process conducted by the Department. See <https://www.eas.utoronto.ca/languages/korean> for details.

Exclusion: EAS110Y1, EAS210Y1, EAS212H1

Breadth Requirements: Creative and Cultural Representations (1)

EAS212H1 - Accelerated Modern Standard Korean II

Hours: 48L

As a continuation of EAS110Y1, this course is designed to help students increase their Korean communication skills at beginner high to intermediate low levels. It is ideal for self-motivated students who enjoy fast-paced language learning, and students who have built basic language skills from prior study. Successful completion of the course fulfils the prerequisite for EAS310Y1. Students who do not meet the prerequisite must go through placement process conducted by the Department. See www.eas.utoronto.ca/languages/korean for details.

Prerequisite: EAS110Y1 (70% minimum)/Students who do not meet the prerequisite must go through placement process conducted by the Department.

Exclusion: EAS210Y1, EAS211Y1

Breadth Requirements: Creative and Cultural Representations (1)

EAS310Y1 - Modern Standard Korean III

Hours: 48L/72T

As a continuation of [EAS210Y1](#) and [EAS211Y1](#), this course is designed to help students improve their Korean proficiency at the intermediate level. The class focuses not only on oral fluency and grammar but also on reading comprehension. Students who do not meet the prerequisite must go through placement process conducted by Department. See www.eas.utoronto.ca/languages/korean for details.

Prerequisite: [EAS210Y1](#) (67%)/ [EAS211Y1](#) (67%)/ [EAS212H1](#) (67%)/equivalent as determined by placement process

Breadth Requirements: Creative and Cultural Representations (1)

EAS410Y1 - Modern Standard Korean IV

Hours: 96L

As a continuation of [EAS310Y1](#), this course is designed for advanced-level learners of Korean. Through reading short essays/articles and watching films, this course aims to improve students' proficiency in speaking, writing, listening, and reading. Classroom and online discussions are conducted entirely in Korean. Students who do not meet the prerequisite must go through placement process conducted by the Department. See www.eas.utoronto.ca/languages/korean for details.

Prerequisite: [EAS310Y1](#) (70% minimum)/equivalent as determined by placement process

Breadth Requirements: Creative and Cultural Representations (1)

EAS416Y1 - Academic and Professional Korean

Hours: 96L

This course aims to assist students to upgrade their language proficiency for academic and professional purposes. It is ideal for students who seek career opportunities in Korea-related business or in higher education in Korean studies. Emphasis is on comprehension and composition of academic and business texts and preparation for Korean proficiency tests. Students who do not meet the prerequisite must go through placement process conducted by the Department. See www.utoronto.ca/languages/korean for details.

Prerequisite: [EAS310Y1](#) (70% minimum)/equivalent as determined by placement process.

Breadth Requirements: Creative and Cultural Representations (1)

Ecology and Evolutionary Biology

Faculty List

University Professor Emeritus

S.C.H. Barrett, BSc, PhD, FRSC, FRS

Professors Emeriti

P.A. Abrams, BSc, PhD, FRSC

D.R. Brooks, MS, PhD, FRSC

T.J. Carleton, BSc, PhD

C.S. Churcher, MSc, PhD

H. Cyr, MSc, PhD

N.G. Dengler, MS, PhD

D.W. Dunham, BS, PhD

J.E. Eckenwalder, MSc, PhD

J.B. Falls, BA, PhD CM

C.A. Goldman, MSc

M.R. Gross, BSc, PhD

R.I.C. Hansell, BSc, PhD

H.H. Harvey, MSc, PhD

D.A. McLennan, MSc, PhD

R.C. Plowright, MA, PhD

H.A. Regier, MS, PhD CM

L. Rowe, BSc, PhD, FRSC

J.D. Thomson, MS, PhD, FRSC

A.E. Weis, BA, PhD

A. P. Zimmerman, BA, PhD

University Professor

M.-J. Fortin, MSc, PhD, FRSC

M.B. Sokolowski, BSc, PhD, FRSC

Professor and Chair, Graduate Studies

A.D. Cutter, BSc, PhD

Distinguished Professors

A. Agrawal, BSc, PhD

J.R. Stinchcombe, BA, PhD

Chair of the Department

Joel Levine, BA, PhD

Professors

B. Chang, AB, PhD

M.E. Frederickson, AB, PhD

D.A. Jackson, MSc, PhD

F.H. Rodd, MSc, PhD

R.F. Sage, MS, PhD

S.I. Wright, MSc, PhD

Associate Professor and Associate Chair, Undergraduate Studies

N. Mideo, BSc, PhD

Associate Professors

J-B. Caron, MSc, PhD

D.C. Currie, BSc, PhD

C. Darling, MSc, PhD

M.E. Engstrom, MSc, PhD

D. Evans, BSc, PhD

B. Gilbert, MSc, PhD

M. Krkosek, BSc, PhD

D.L. Mahler, BA, PhD

T.L. Sage, MS, PhD

N. Rollinson, MSc, PhD

Assistant Professors

C.B. Baines, MSc, PhD

M. Bontrager, BSc, PhD

S. Brothers, MSc, PhD

S. Claramunt, BSc, PhD

M. Freedman, BSc, PhD

N.K. Lujan, BSc, PhD

M.M. Osmond, MSc, PhD

T. Parins-Fukuchi, BSc, PhD

C.M. Rochman, BSc, PhD

J. Sztepanacz, MSc, PhD

Assistant Professor, Teaching Stream

S. Riskin, BA, PhD

Introduction

Ecology and evolutionary biology (EEB) seeks to understand the origins, diversity, and distribution of organisms. All life evolves. All life sciences, along with evidence-based stewardship of life on planet Earth, depend on understanding the factors that influence the origin and maintenance of biological diversity – from genomes to ecosystems. Understanding EEB helps society to make informed decisions about sustainable development, global climate change, invasive species, harvested natural resources, preservation of biodiversity, genetic diversity and ecosystem integrity, control of herbicide and pesticide resistance, antibiotic and drug resistance, and emerging infectious diseases.

Students exposed to these subjects come to realize that the ecological and evolutionary underpinnings of life pose a constellation of engaging scientific problems that are both intellectually challenging and critical to humanity's future. EEB graduates go on to successful careers in data science, research, medicine and healthcare, government ministries like MNR and DFO, environmental and conservation NGO's and consulting firms, and many other industries. As members of one of the highest ranked EEB departments in the world and the largest EEB department in Canada, EEB students are uniquely positioned to enhance their scientific literacy as the future decision-makers and knowledge-creators in society.

The EEB Department offers a diverse collection of over 50 courses that explore biological diversity, conservation biology, molecular evolution, population and quantitative genetics, computational and statistical data analysis, genomics, animal behaviour, the ecology of populations, communities, and ecosystems, mathematical theory in biology, environmental biology, and systematics. EEB faculty include Curators from the Royal Ontario Museum. Students participate in diverse learning environments within EEB courses: hands-on bench and computer lab practicals, field trips, off-campus field courses in Ontario and internationally, small-class discussion seminars, and independent research projects with world-leading faculty researchers. Students enrolled in EEB courses and programs become part of a welcoming and supportive community of scholars.

The EEB Department offers six core programs of study: **Ecology & Evolutionary Biology** (Specialist and Major), **Biodiversity & Conservation Biology** (Major), **Environmental Biology** (Major and Minor) and **Quantitative Biology** (Major). Students enrolled in EEB programs are invited to participate in the Arts & Science's Second-Year Learning Communities, or SLCs, that bring together a small group of second-year students who have a similar academic focus and belong to the same department, and to attend the EEB Info Session Series for advising about career options, applying for scholarships and grad school, and seeking out research opportunities.

Students with questions and advising needs about EEB-sponsored programs are encouraged to visit the departmental website <https://eeb.utoronto.ca/education/undergraduate/> or to contact the EEB Undergraduate Office, Earth Sciences Centre (25 Willcocks St.), Room 3055B, undergrad.eeb@utoronto.ca, 416-978-2084.

The EEB Department also jointly offers multi-department programs: Specialist, Major, and Minor programs in general **Biology** (with Cell & Systems Biology), a Major program in **Genome Biology** (with Cell & Systems Biology and Molecular Genetics & Microbiology), and a Specialist program in **Bioinformatics & Computational Biology** (with Cell & Systems Biology, Biochemistry, Molecular Genetics & Microbiology, and Computer Science). Students requiring more information about these programs and their course requirements should consult the Biology Calendar page.

Ecology and Evolutionary Biology Program Goals

Ecologists and evolutionary biologists recognize that all life has evolved and that an understanding of the factors influencing the origin and maintenance of biological diversity – from genomes to ecosystems – underlies all life sciences and is critical to our stewardship of life on this

planet. EEB aims to produce citizens who are literate in the ecological and evolutionary principles that form the foundation for understanding life on Earth, how human and natural factors influence nature, and how changes to nature influence public health, the economy, and other societal priorities. The EEB-sponsored programs of study prepare students in these foundations of life science for future careers in data science, research, medicine and healthcare, government agencies like MNR and DFO, environmental and conservation NGOs, and many other industries.

Ecology and Evolutionary Biology Programs

Ecology and Evolutionary Biology Specialist (Science Program) - ASSPE1006

The **Ecology & Evolutionary Biology Specialist** program (12.0 credits) provides an in-depth understanding of ecological and evolutionary patterns and processes, as well as the diversity of life forms (microbes, fungi, plants, animals). Concepts are taught using a broad array of approaches, including molecular studies, laboratory experiments, computer and mathematical modeling, and field studies. An integral part of the experience is to conduct independent research projects in the laboratory and/or field. There is a strong emphasis within the program on hands-on laboratory and fieldwork that complement the conceptual framework developed in lectures. Students in this program have the opportunity to concentrate in ecology, evolutionary biology, or behaviour.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(12.0 credits including at least 4.0 credits at the 300+ level, 1.0 of which must be at the 400-level)

First Year (3.0 credits): BIO120H1; BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1; (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

1. 2.0 credits: BIO220H1 (ecology and evolutionary biology); BIO230H1/ BIO255H1 (molecular and cell biology); BIO260H1/ HMB265H1 (genetics); BIO251H1/ BIO270H1/ PSL300H1/ EEB240H1 (plant or animal form and function/environmental biology).

2. 0.5 credit in computational science from: EEB125H1/ CSC108H1/ CSC148H1/ CSC110Y1, and 0.5 credit in

statistics from: [EEB225H1](#)/ [STA220H1](#)/ [STA257H1](#)/
[STA288H1](#)/ [GGR270H1](#)/ [PSY201H1](#)

3. 0.5 credit in core evolution from: [EEB318H1](#),
[EEB323H1](#), [EEB362H1](#)

4. 0.5 credit in core ecology from: [EEB319H1](#), [EEB320H1](#),
[EEB321H1](#), [EEB328H1](#)

5. 0.5 credit in organismal biology from: [EEB263H1](#),
[EEB266H1](#), [EEB267H1](#), [EEB268H1](#), [EEB331H1](#),
[EEB340H1](#), [EEB380H1](#), [EEB382H1](#), [EEB384H1](#),
[EEB386H1](#), [EEB388H1](#)

6. 1.0 credit at 300+ level, from: [EEB313H1](#), [EEB318H1](#),
[EEB319H1](#), [EEB320H1](#), [EEB321H1](#), [EEB322H1](#),
[EEB323H1](#), [EEB324H1](#), [EEB325H1](#), [EEB328H1](#),
[EEB331H1](#), [EEB340H1](#), [EEB356H1](#), [EEB362H1](#),
[EEB365H1](#), [EEB380H1](#), [EEB382H1](#), [EEB384H1](#),
[EEB386H1](#), [EEB388H1](#), [EEB390H1](#), [EEB398H0](#),
[EEB399Y0](#), [EEB428H1](#), [EEB430H1](#), [EEB433H1](#),
[EEB434H1](#), [EEB440H1](#), [EEB441H1](#), [EEB455H1](#),
[EEB458H1](#), [EEB459H1](#), [EEB460H1](#), [EEB463H1](#),
[EEB465H1](#), [EEB466H1](#), [EEB491H1](#), [EEB495H1](#);
[EHJ352H1](#); [ENV432H1](#); [ENV395Y1](#)

Sub-total = 8.5 credits

7. 1.0 to 1.5 credits in at least two of the three following categories: (1) one field course (0.5 credit) from [EEB403H0](#), [EEB403H1](#), [EEB405H0](#), [EEB405H1](#), [EEB406H0](#), [EEB406H1](#), [EEB410H0](#), [EEB410H1](#); (2) one seminar (0.5 credit) from [EEB491H1](#), [EEB495H1](#); and/or (3) one independent research course (0.5 credit) from [EEB497H1](#)/ (1.0 credit) from [EEB498Y1](#)

Sub-total = 9.5 or 10.0 credits (depending on options chosen in #7)

8. Select the remaining credits for a total of 12.0 credits (at least 1.0 must be 300+ series if 1.0 credit is completed in #7 above) from: [BIO251H1](#), [BIO270H1](#)/ [PSL300H1](#), [BIO271H1](#)/ [PSL301H1](#); all EEB courses (excluding [EEB196H1](#), [EEB197H1](#), [EEB198H1](#), [EEB199H1](#), [EEB202H1](#), [EEB208H1](#), [EEB214H1](#), [EEB215H1](#)); [EHJ352H1](#); [ENV432H1](#); [JHE353H1](#), [JHE355H1](#); and no more than 1.0 credit from the following (note that some courses may require prerequisites that are not listed within this program): [ANT336H1](#), [ANT333Y1](#), [ANT335Y1](#), [ANT338H1](#), [ANT430H1](#), [ANT436H1](#); [CSB328H1](#), [CSB340H1](#), [CSB349H1](#), [CSB350H1](#), [CSB352H1](#), [CSB353H1](#), [CSB430H1](#), [CSB431H1](#), [CSB452H1](#), [CSB458H1](#), [CSB472H1](#), [CSB474H1](#); [ENV346H1](#); [FOR200H1](#), [FOR201H1](#), [FOR301H1](#), [FOR306H1](#), [FOR307H1](#), [FOR413H1](#), [FOR416H1](#), [FOR417H1](#), [FOR418H1](#); [GGR201H1](#), [GGR203H1](#), [GGR205H1](#), [GGR206H1](#), [GGR272H1](#), [GGR273H1](#), [GGR305H1](#), [GGR307H1](#), [GGR308H1](#); [MAT221H1](#); [MGY340H1](#); [PSY100H1](#), [PSY260H1](#), [PSY270H1](#), [PSY280H1](#), [PSY290H1](#), [PSY305H1](#), [PSY390H1](#), [PSY397H1](#),

[PSY474H1](#), [PSY492H1](#), [PSY497H1](#) (note that many PSY courses have limited enrolment)

Total = 12.0 credits

NOTE: Students may wish to concentrate in ecology, evolutionary biology, or behaviour. Recommended EEB, EHJ and JHE courses for these concentrations are as follows:

Ecology: [EEB255H1](#), [EEB319H1](#), [EEB320H1](#), [EEB321H1](#), [EEB328H1](#), [EEB365H1](#), [EEB428H1](#), [EEB433H1](#), [EEB434H1](#), [EEB440H1](#), [EEB465H1](#), [EEB495H1](#); [ENV432H1](#)

Evolutionary Biology: [EEB323H1](#), [EEB324H1](#), [EEB325H1](#), [EEB362H1](#), [EEB390H1](#), [EEB440H1](#), [EEB441H1](#), [EEB459H1](#), [EEB460H1](#); [EHJ352H1](#); [JHE353H1](#), [JHE355H1](#)

Behaviour: [EEB322H1](#), [EEB455H1](#)

Biodiversity and Conservation Biology Major (Science Program) - ASMAJ0110

In today's era of unprecedented global change, natural ecosystems are under attack and thousands of species are threatened with extinction and many more have experienced unprecedented declines. Students in the **Biodiversity & Conservation Biology Major** program (8.0 credits) will be equipped to aid in the response to what is perhaps humanity's most pressing challenge, the conservation of biological diversity. Students in this program take courses in their first and second years that provide foundations in ecology, evolutionary biology, biodiversity and conservation biology, environmental biology, mathematics, and statistics. In their upper years students will obtain in-depth knowledge about the diversity of living organisms and take advanced courses in ecology, evolution, and biodiversity and conservation biology.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(8.0 credits including at least 2.0 credits at 300+ level with at least 0.5 credit at the 400 level)

First Year (1.0 credit): [BIO120H1](#); [EEB125H1](#)/ [MAT135H1](#)/ [MAT137Y1](#)/ [MAT221H1](#)/ [MAT223H1](#)

Higher Years:

1. 2.0 credits: BIO220H1 (ecology and evolutionary biology); EEB225H1/ STA220H1/ STA257H1/ STA288H1/ GGR270H1/ PSY201H1 (statistics); EEB255H1 (conservation biology); EEB240H1 (environmental biology).

2. 1.5 credits from: BIO251H1; EEB263H1, EEB266H1, EEB267H1, EEB268H1, EEB340H1, EEB380H1, EEB382H1, EEB384H1, EEB386H1, EEB388H1; FOR305H1

3. 0.5 credit in core evolution: EEB318H1, EEB323H1, EEB362H1

4. 0.5 credit in core ecology from: EEB319H1, EEB320H1, EEB321H1, EEB328H1

5. 0.5 credit: EEB365H1 (applied conservation biology)

6. 1.5 credits from: BIO130H1, BIO251H1; EEB263H1, EEB266H1, EEB267H1, EEB268H1, EEB313H1, EEB318H1, EEB319H1, EEB320H1, EEB321H1, EEB322H1, EEB323H1, EEB324H1, EEB325H1, EEB328H1, EEB331H1, EEB340H1, EEB362H1, EEB380H1, EEB382H1, EEB384H1, EEB386H1, EEB388H1, EEB390H1, EEB397Y1, EEB398H0, EEB399Y0, EEB428H1, EEB430H1, EEB433H1, EEB434H1, EEB440H1, EEB441H1, EEB455H1, EEB458H1, EEB459H1, EEB463H1, EEB491H1, EEB495H1, EEB497H1, EEB498Y1, EEB499Y1; EHJ352H1; ENV432H1; FOR200H1, FOR201H1, FOR307H1, FOR413H1; GGR272H1, JHE353H1, JHE355H1

7. 0.5 credit: EEB 400-series level course

Ecology & Evolutionary Biology Major (Science Program) - ASMAJ1006

The **Ecology & Evolutionary Biology Major** program (8.0 credits) provides a comprehensive understanding of ecological and evolutionary patterns and processes, as well as the diversity of life forms (microbes, fungi, plants, animals). Concepts are taught using a broad array of approaches, including molecular studies, laboratory experiments, computer and mathematical modeling, and field studies. An integral part of the experience is to conduct independent research projects in the laboratory and/or field. There is a strong emphasis within the program on hands-on laboratory and fieldwork that complement the conceptual framework developed in lectures.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(8.0 credits including at least 2.0 credits at 300+ series with at least 0.5 credit at the 400-series)

First Year (2.0 credits): BIO120H1; BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1/ (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Higher Years:

1. 2.0 credits: BIO220H1; BIO230H1/ BIO255H1; BIO260H1/ HMB265H1; EEB225H1/ STA220H1/ STA257H1/ STA288H1/ GGR270H1/ PSY201H1

2. 1.0 credit from: BIO251H1, BIO270H1/ PSL300H1, BIO271H1/ PSL301H1, EEB263H1, EEB266H1, EEB267H1, EEB268H1, EEB240H1

3. 0.5 credit in core ecology and evolution from: EEB318H1, EEB319H1, EEB320H1, EEB321H1, EEB322H1, EEB328H1, EEB362H1

4. 1.5 credits from: EEB313H1, EEB318H1, EEB319H1, EEB320H1, EEB321H1, EEB322H1, EEB323H1, EEB324H1, EEB325H1, EEB328H1, EEB331H1, EEB362H1, EEB365H1, EEB380H1, EEB382H1, EEB384H1, EEB386H1, EEB388H1, EEB390H1, EEB397Y1, EEB398H0, EEB398Y0, EEB399Y1, EEB428H1, EEB430H1, EEB433H1, EEB434H1, EEB440H1, EEB441H1, EEB455H1, EEB458H1, EEB459H1, EEB460H1, EEB463H1, EEB465H1, EEB466H1; EHJ352H1; ENV432H1; PSY305H1

5. 0.5 credit from: BIO251H1; BIO270H1/ PSL300H1; BIO271H1/ PSL301H1; EEB (excluding EEB196H1, EEB197H1, EEB198H1, EEB199H1, EEB202H1, EEB208H1, EEB214H1, EEB215H1); ENV234H1, ENV334H1, ENV432H1; EHJ352H1; JHE353H1, JHE355H1; MAT135H1/ MAT136H1/ MAT137Y1/ MAT221H1/ MAT223H1; MGY340H1

6. 0.5 credit at the 400-series from: field course, EEB403H0, EEB403H1, EEB405H0, EEB405H1, EEB406H0, EEB406H1, EEB410H0, EEB410H1; seminar EEB491H1, EEB495H1; independent research project course, EEB497H1, EEB498Y1 (concurrent with research issues course EEB488H1), EEB499Y1; advanced lecture/discussion course, EEB428H1, EEB430H1, EEB433H1, EEB440H1, EEB455H1, EEB459H1, EEB460H1, EEB465H1, EEB466H1; ENV432H1

Environmental Biology Major (Science Program) - ASMAJ1390

Environmental science is an interdisciplinary field that integrates biological, chemical, and physical sciences to

study human interactions with their environment. The **Environmental Biology Major** program (8.0 credits) provides a broad background in biology that is essential to understand the impact of humans on other organisms and their environments. It provides students with an understanding of ecology, the diversity and function of living organisms, the physical and chemical environment, and the ways organisms interact with, and affect, ecosystem processes. Students are exposed to ecosystem management, issues related to environmental change, and the consequences of interactions between humans and the environment.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(8.0 credits including at least 2.0 credits at 300+ level with at least 0.5 credit at the 400-level)

First Year (2.0 credits): BIO120H1; (CHM135H1, CHM136H1)/ CHM151Y1; MAT135H1/ MAT136H1/ MAT137Y1/ MAT221H1/ MAT223H1 or PHY131H1/ PHY151H1 or BIO130H1 or EEB125H1

1. 1.5 credits: BIO220H1; EEB240H1; EEB225H1/ STA220H1/ STA257H1/ STA288H1/ GGR270H1/ PSY201H1

2. 0.5 credit in biological diversity and function from: BIO251H1, BIO270H1; EEB266H1, EEB267H1, EEB268H1, EEB340H1; BIO260H1/ HMB265H1 (note that both require BIO130H1 and BIO230H1/ BIO255H1)

3. 0.5 credit in physical environment from: CHM210H1; ENV237H1, ENV238H1; ESS223H1, ESS261H1, ESS262H1; GGR201H1, GGR203H1, GGR205H1, GGR206H1; PHY131H1, PHY132H1, PHY151H1, PHY152H1

4. 1.0 credit in core ecology from: EEB319H1, EEB320H1, EEB321H1, EEB322H1, EEB324H1, EEB328H1

5. 2.0 credits from: EEB313H1, EEB319H1, EEB320H1, EEB321H1, EEB322H1, EEB323H1, EEB324H1, EEB325H1, EEB328H1, EEB365H1, EEB386H1, EEB403H0, EEB403H1, EEB405H0, EEB405H1, EEB406H0, EEB406H1, EEB410H0, EEB410H1, EEB428H1, EEB430H1, EEB433H1, EEB434H1, EEB441H1, EEB458H1, EEB463H1, EEB497H1, EEB498Y1, EEB499Y1; ENV316H1, ENV337H1, ENV432H1, ENV452H1; ESS311H1, ESS361H1, ESS362H1, ESS462H1, ESS463H1, ESS464H1; FOR305H1, FOR307H1, FOR418H1; GGR305H1, GGR307H1, GGR308H1; JFG470H1

6. 0.5 credit at the 400-level from: field course EEB403H0, EEB403H1, EEB405H0, EEB405H1, EEB406H0, EEB406H1, EEB410H0, EEB410H1/ FOR418H1; seminar/lecture course EEB428H1, EEB430H1, EEB433H1, EEB491H1, EEB495H1, ENV432H1, ENV452H1; ESS462H1, ESS463H1, ESS464H1; JFG470H1; EEB497H1, independent research project course EEB498Y1 (concurrent with research issues course EEB488H1), EEB499Y1

This program can be combined with other Environmental programs (see School of the Environment), as well as Science (e.g., Chemistry, Earth Sciences) and Social Science (e.g., Economics) programs.

Environmental Biology Minor (Science Program) - ASMIN1390

Environmental science is an interdisciplinary field that integrates biological, chemical, and physical sciences to study human interactions with their environment. The **Environmental Biology Minor** program (4.0 credits) provides students an introduction to biology that is essential to understand the impact of humans on other organisms and their environments. It provides students with an understanding of ecology, the diversity and function of living organisms, the physical and chemical environment, and the ways organisms interact with, and affect, ecosystem processes. Students are exposed to ecosystem management, issues related to environmental change, and the consequences of interactions between humans and the environment.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits; must include at least 1.0 credit at the 300+ level)

1. 1.5 credits: BIO120H1, BIO220H1, EEB240H1

2. 0.5 credit in organismal biology: EEB266H1/ EEB267H1/ EEB268H1

3. 2.0 credits from the following groups:

A. core ecology and evolution (no more than 0.5 credit): EEB318H1, EEB319H1, EEB320H1, EEB321H1, EEB322H1, EEB324H1, EEB328H1

B. biological diversity (no more than 0.5 credit): EEB263H1, EEB266H1, EEB267H1, EEB268H1,

EEB331H1, EEB340H1, EEB380H1, EEB382H1,
EEB384H1, EEB386H1, EEB388H1

C. field courses (no more than 0.5 credit): EEB403H0,
EEB403H1, EEB405H0, EEB405H1, EEB406H0,
EEB406H1, EEB410H0, EEB410H1

D. no more than 0.5 credit from: BIO251H1, EEB255H1,
EEB362H1, EEB365H1, EEB428H1, EEB433H1,
EEB434H1; ENV432H1

Quantitative Biology Major (Science Program) - ASMAJ2368

The Quantitative Biology Major program (8.0 credits) is designed for students with a deep interest in biology who wish to gain a strong grounding in quantitative methods and their application to biological questions. More than ever, advancements in biology, from the molecular through the organismal to the ecosystem level, require quantitative thinking and skills along with a strong understanding of biological processes. Interdisciplinary research that draws from the natural sciences, mathematics, statistics and computer science, is an important aspect of modern biology. This major provides foundations in biology and quantitative approaches used to test and advance biological knowledge, and is appropriate for students who wish to pursue a career or graduate studies in a broad range of life sciences, ranging from biomedical to conservation to epidemiology.

The program is delivered through a mixture of classroom-learning and applied laboratory teaching, with an emphasis on understanding how quantitative methods inform our understanding of biology, and how they can be applied to test and develop new hypotheses. Students also have access to independent research opportunities that enhance professional skills, science communication, and the development and application of knowledge in quantitative biology.

Quantitative Biology Major students have priority enrollment in the EEB courses listed, but not in courses offered by other departments, such as STA, MAT, CSC, CSB and BCB. Students should be aware that some courses listed have prerequisites that are not listed below. For students intending to pursue graduate studies, it is strongly recommended that an independent research course such as EEB498Y1 be included as part of the Quantitative Biology major.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- BIO120H1 (70%)/ BIO130H1 (70%)
- CSC108H1 (70%)/ CSC148H1 (70%)/ CSC110Y1 (70%)/ MAT135H1 (70%)/ MAT136H1 (70%)/ MAT137Y1 (70%)/ MAT157Y1 (70%)

Completion Requirements:

(8.0 credits including at least 2.0 credits at the 300+ level, 0.5 of which must be at the 400 level)

First Year (2.5 credits):

BIO120H1, BIO130H1, EEB125H1/ CSC108H1/
CSC148H1/ CSC110Y1, (MAT135H1, MAT136H1)/
MAT137Y1/ MAT157Y1

Higher Years (5.5 credits):

1. 1.5 credits: BIO220H1, BIO230H1/ BIO255H1, BIO260H1/ HMB265H1
2. 1.0 credit in introductory probability and statistics: EEB225H1, GGR270H1, PSY201H1, PSY202H1, STA220H1, STA221H1, STA237H1, STA238H1, STA247H1, STA248H1, STA255H1, STA257H1, STA261H1, STA288H1
3. 0.5 credit in intermediate math: APM236H1, MAT221H1/ MAT223H1, MAT224H1, MAT240H1, MAT237Y1, MAT247H1
4. 1.0 credit from: CSB352H1, EEB319H1, EEB323H1, EEB324H1, EEB362H1, GGR337H1, GGR372H1, GGR373H1, PHY331H1
5. 1.0 credit from: APM346H1, APM446H1, APM461H1, APM462H1, BCH441H1, CSB472H1, CSC311H1, CSC320H1, CSC336H1, CSC343H1, CSC373H1, CSC384H1, CSC401H1, CSC412H1, CSC413H1, CSC420H1, EEB313H1, EEB430H1, EEB458H1, EEB459H1, EEB460H1, EEB463H1, EEB498Y1, EEB499Y1, MAT332H1, MAT335H1, MAT344H1, MAT351Y1, MGY428H1, PHY431H1, PSY305H1, STA302H1, STA303H1, STA304H1, STA305H1, STA355H1, STA365H1, STA480H1
6. 0.5 credit at 400 level from: BCB410H1, BCB420H1, BCH441H1, CSB435H1, CSB472H1, CSB498Y1, CSB499Y1, EEB430H1, EEB458H1, EEB459H1, EEB460H1, EEB463H1, EEB498Y1, EEB499Y1, PHY431H1, PSY474H1, STA480H1

General Biology Programs: see Biology

The University of Toronto has an enormous depth of faculty members on the St. George campus who conduct leading-edge research and teach courses in the biological

sciences. Within the Faculty of Arts and Science, St. George campus, there is no single biology department; members of the Departments of Ecology & Evolutionary Biology (EEB) and Cell & Systems Biology (CSB) teach biology courses across the broad spectrum of introductory to advanced topics. These departments jointly offer the Biology Programs of Study to provide broad-based training in biological sciences. Students requiring more information about these programs and their course requirements should consult the Biology Calendar page.

The Biology Specialist, Major and Minor programs are administered by the Department of Ecology & Evolutionary Biology. Students with questions and advising needs about these programs are encouraged to visit the departmental website <https://eeb.utoronto.ca/education/undergraduate/> or to contact the EEB Undergraduate Office, Earth Sciences Centre (25 Willcocks St.), Room 3055B, undergrad.eeb@utoronto.ca, 416-978-2084.

Co-sponsored Programs in Genomics and Informatics: see Biology

The Department of Ecology & Evolutionary Biology also co-sponsors the **Bioinformatics & Computational Biology** (Specialist) and **Genome Biology** (Major) programs. These programs are administered by the Department of Cell & Systems Biology. Students requiring more information about these programs and their course requirements should consult the Biology Calendar page.

Enrolment Requirements, First-Year Courses, Advising and Mentorship

All EEB programs have unlimited enrolment and no specific admission requirements. All students who have completed at least 4.0 credits of courses are eligible to enrol in a Program of Study (most single-semester courses are a 0.5 credit). Program completion requires 12.0-12.5 credits for a Specialist, 8.0 credits for a Major, or 4.0 credits for a Minor. To fulfill graduation degree requirements, students must complete either one Specialist, two Majors, or one Major with two Minors. Students may choose a Specialist to focus in-depth on a single subject area or may pair complementing Majors (or Minors) to customize their education and training to encompass the breadth of their interests.

Students entering their first year in the life sciences take BIO120H1 ("Adaptation and Biodiversity" offered by EEB) and BIO130H1 ("Molecular and Cell Biology" offered by CSB). These courses are taken by students who have successfully completed Grade 12 Biology (SBI4U or an equivalent course). BIO130H1 also requires Grade 12

Chemistry (SCH4U or an equivalent course). One or both of these courses are a prerequisite for almost all further courses in the life sciences. Students requiring more information about BIO120H1 please contact the BIO120 Office, Ramsay Wright Zoological Laboratories (25 Harbord St.), Room 105E, bio120@utoronto.ca

Students requiring more information about EEB programs and courses please visit the departmental website or contact the Undergraduate Office, Earth Sciences Centre (25 Willcocks St.), Room 3055B, undergrad.eeb@utoronto.ca, 416-978-2084.

EEB

website: <https://eeb.utoronto.ca/education/undergraduate/>

Students enrolled in EEB programs are encouraged to participate in the Arts & Science's <https://eeb.utoronto.ca/education/undergraduate/peer-mentorship-program-eeb-pmp/>, or SLCs, that bring together a small group of second-year students who have a similar academic focus and belong to the same department, and to attend the EEB Info Session Series for advising about career options, applying for scholarships and grad school, and seeking out research opportunities. EEB students are automatically considered for >\$25,000 in merit and need-based endowed scholarships annually from our department. Students in EEB courses and programs also are encouraged to seek advice from the EEB undergraduate office (undergrad.eeb@utoronto.ca).

Lab Materials Fee

Some courses in this department have a mandatory Lab Materials Fee to cover non-reusable materials. The fee for each such course is given in its course description, and will be included on the student's invoice on ACORN.

First Year Seminars

EEB's "first-year foundations" seminar courses (EEB196H1, EEB197H1, EEB198H1, EEB199H1) are designed to provide students the opportunity to work closely with an instructor in a class of no more than 30 students. These interactive seminars are intended to stimulate the students' curiosity and provide an opportunity to get to know a member of the professorial staff in a seminar environment during the first year of study.

Ecology & Evolutionary Biology Course Goals

The EEB Department offers a diverse collection of over 50 courses that explore biological diversity, conservation biology, molecular evolution, population and quantitative genetics, computational and statistical data analysis,

genomics, animal behaviour, the ecology of populations, communities, and ecosystems, mathematical theory in biology, environmental biology, and systematics. We encourage students enrolled in non-life sciences programs to take one of our many breadth courses to fulfill their distribution requirements for graduation. Students enrolled in EEB courses and programs become part of a welcoming and supportive community of scholars.

Students participate in diverse learning environments within EEB courses: hands-on bench and computer lab practical sections, field trips, off-campus field courses in Ontario and internationally, small-class discussion seminars, and independent research projects with world-leading faculty researchers. EEB faculty even include Curators from the Royal Ontario Museum. In EEB courses, students make use of leading resources at U of T, including EEB's greenhouse Growth Facility and the Koffler Scientific Reserve. Students build skills in writing,

oral presentation, teamwork, critical thinking, and technical ability in addition to expanding their factual knowledge and conceptual understanding in the biological sciences.

Breadth courses for students in programs outside of the life sciences:

- [EEB196H1](#) - Using Ecology and Evolution to Understand our World
- [EEB197H1](#) - Biodiversity and the City
- [EEB198H1](#) - Genes and Behaviour
- [EEB199H1](#) - Humans, Evolution and Ecology
- [EEB202H1](#) - Plants and Society
- [EEB208H1](#) - Ecosystems and the Human Footprint
- [EEB214H1](#) - Evolution and Adaptation
- [EEB215H1](#) - Conservation Biology

Ecology and Evolutionary Biology Courses

BIO120H1 - Adaptation and Biodiversity

Hours: 24L/15P

Principles and concepts of evolution and ecology related to origins of adaptation and biodiversity. Mechanisms and processes driving biological diversification illustrated from various perspectives using empirical and theoretical approaches. Topics include: genetic diversity, natural selection, speciation, physiological, population, and community ecology, maintenance of species diversity, conservation, species extinction, global environmental change, and invasion biology. A lab coat is required. (Lab Materials Fee: \$26)

Prerequisite: Grade 12 Biology or equivalent. Students without high school Biology must consult the BIO120 Office (bio120@utoronto.ca)

Breadth Requirements: Living Things and Their Environment (4)

EEB125H1 - Introductory Computation and Data Science for the Life and Physical Sciences

Hours: 24L/12T

Life and physical scientists increasingly use big and complex datasets to answer questions about society and the natural world. In this course, students will develop introductory programming knowledge and data acumen to explore topics drawn from biology, chemistry, physics, and

psychology. Students will learn to create and run computer programs, organize ideas using data to communicate clearly to others, break a complex problem into simpler parts, apply general data science principles to specific cases, distinguish causation from correlation and coincidence, and negotiate tradeoffs between different computational and statistical approaches.

Exclusion: [CSC111H1](#), [CSC148H1](#), [STA130H1](#), [STA238H1](#), [STA248H1](#), [STA261H1](#), [GGR274H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

EEB196H1 - Using Ecology and Evolution to Understand our World

Hours: 24L

Understand the living world by learning principles of ecology and evolution. Through discussion, scientific literature research, seminal readings, written reports and presentations, you will discover how scientists ask and answer questions in ecology and evolution. Specific topics will vary to emphasize the expertise of the instructor, with examples including: Are humans still evolving? What is causing the sixth extinction crisis and how can we protect endangered species? Are species shifting their ranges to mitigate the impacts of climate change, and should we be helping them? How do diseases evolve and can we use evolutionary tools to control diseases of concern? Why are there so many species, and do introduced species increase or lower this diversity? Can and should we use evolution to create improved species? For non-science students in all disciplines. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

EEB197H1 - Biodiversity and the City

Hours: 24L

Most of us are urban creatures, but we as people are not the only urban creatures. In this seminar we will explore the diversity of animal and plant species comprising the ecological community that we call "Toronto". We will learn their names, whether they are endemic (from here originally) or newcomers, general aspects of their biology that suit them to living in an urban environment, how natural selection shapes the traits similarly and differently for species in urban versus wilderness settings, and what happens when the wild and the domesticated members of the community meet one another. For non-science students in all disciplines. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

EEB198H1 - Genes and Behaviour

Hours: 24L

In this course you will experience the new paradigm in behaviour genetic research. You will learn why the concept of a nature-nurture dichotomy is passé and that it has been replaced by a new understanding gained from animal and human research in the areas of gene by environment interaction and epigenetics. We will discuss how our genome listens to our environment and the effect this has on our health and behaviour. We will learn why our early experiences are critical for the development of our brains and our bodies. Together this new body of knowledge will help us understand how individual differences in behaviour and health arise. For non-science students in all disciplines. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

EEB199H1 - Humans, Evolution and Ecology

Hours: 24L

Learn about the evolution and ecology of humans and other species. Through discussion, scientific literature research, seminal readings, written reports and presentations you will discover scientific answers to questions such as (topics vary among years): How did life originate? Why are there so many species? Where did humans come from? Will humans become extinct? How can we explain human DNA and human brain size? Need we worry about climate change? What is causing the sixth

extinction crisis? Are there ecological limits to human population size? What will life be like in the Anthropocene? Are humans still evolving? For non-science students in all disciplines. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

EEB202H1 - Plants and Society

Hours: 24L

The importance of plants to society. Topics include: plant biology, domestication of crop plants, plant breeding and genetic engineering, biological invasions, conservation, biodiversity and genetic resources, ecological implications of advances in modern plant science, macroevolution of plants, forest utilization. For non-science students in all years and disciplines.

Exclusion: BIO120H1

Breadth Requirements: Living Things and Their Environment (4)

EEB208H1 - Ecosystems and the Human Footprint

Hours: 24L/12T

An introduction to the diversity of Earth's aquatic and terrestrial ecosystems (e.g., coral reefs, lakes, tropical rainforests); the history of industrialization and human population growth; how the human footprint impacts ecosystems (e.g., ecosystem function, biological diversity); and strategies to maintain, recover and restore ecosystems. This is a course for non-science students in all years and disciplines.

Exclusion: BIO120H1, ENV200H1, ESS205H1

Breadth Requirements: Living Things and Their Environment (4)

EEB214H1 - Evolution and Adaptation

Hours: 24L/12T

Evolution and adaptation of life on Earth. Introduction to the theory of evolution by natural selection. Topics may include evidence supporting the fact of evolution, and how evolutionary theory can help explain the world around us, such as how species are formed, and the evolution of sex, infanticide, and disease. For non-science students in all years and disciplines.

Exclusion: BIO120H1

Breadth Requirements: Living Things and Their Environment (4)

EEB215H1 - Conservation Biology

Hours: 24L/12T

Introduction to the scientific discipline that deals with threatened species and habitats. Topics include biodiversity, extinction, threats, demography, genetic diversity, protecting, managing and restoring ecosystems (e.g., nature reserves, captive breeding, conservation corridors), sustainable development, and global warming. Ties between the study of conservation biology and environmental law, economics, and policy will also be covered. This is a course for non-science students in all years and disciplines.

Exclusion: BIO120H1

Breadth Requirements: Living Things and Their Environment (4)

BIO220H1 - From Genomes to Ecosystems in a Changing World

Hours: 24L/15P

Dynamics of genetic and ecological change in biological systems, from genomes to ecosystems. Evolutionary genetic and ecological perspectives on wide-ranging topics including disease, aging, sexual conflict, genetics of human differences, conservation, and global climate change. Applications of evolutionary, ecological, and molecular-genetic principles and processes. Responsibilities of human societies in a changing world. (Lab Materials Fee: \$26).

Prerequisite: BIO120H1

Recommended Preparation: BIO130H1, BIO230H1

Breadth Requirements: Living Things and Their Environment (4)

EEB225H1 - Biostatistics for Biological Sciences

Hours: 36L/12P

A statistics course designed especially for life science students, using examples from ecology and evolution where appropriate. Students learn to choose and use statistics that are appropriate to address relevant biological questions and hypotheses. Lectures and computer labs will be used to cover the following methods: sampling and experimental design, data exploration,

correlation, regression, ANOVA, Chi-square, and other parametric tests.

Prerequisite: BIO120H1

Exclusion: ECO220Y1/ ECO227Y1/ GGR270H1/ HMB325H1/ PCL376H1/ PSY201H1/ SOC300Y1/ STA220H1/ STA250H1/ STA288H1

EEB240H1 - Environmental Biology: From Organisms to Ecosystems

Previous Course Number: ENV234H1

Hours: 24L/15P

Biological processes depend on, and impact, environmental conditions that change across space and time, from local scales to biomes, and from seconds to millennia. This course examines the relationships among organisms, populations, and communities, and ecosystems, including the increasing impacts of human activity on environmental conditions. It draws links between global change, biological diversity, and the functions of ecosystems from local to global scales. We use examples from both aquatic and terrestrial ecosystems and emphasize the connectivity across ecosystems and ecosystem-types. Field trips and labs. Mandatory day-long field trip on a weekend. (Lab Materials Fee: \$26).

Prerequisite: BIO120H1

Exclusion: ENV234H1

Breadth Requirements: Living Things and Their Environment (4)

BIO251H1 - Form, Function and Development in Plants

Hours: 24L/12T

This course is an introduction to structure, function and ecology of vegetative and reproductive processes in plants with a focus on flowering plants and gymnosperms. Topics of study in lecture and laboratory tutorials include photosynthesis, transport processes, plant reproduction, patterns of plant growth and development, and the role of hormones in plant development.

Prerequisite: BIO120H1

Breadth Requirements: Living Things and Their Environment (4)

EEB255H1 - Essentials of Biodiversity Science and Conservation Biology

Hours: 24L/24T

“Classical” and “new” concepts in biodiversity and conservation. Topics may include: evolution and ecology in the past (Holocene) and future (Anthropocene); levels and kinds of biodiversity; valuing biodiversity through ecological economics; causes of endangerment; predicting extinction; genetic and demographic theory; habitat protection and captive breeding; conservation policies and endangered species acts; designing future biodiversity.

Prerequisite: BIO120H1

Breadth Requirements: Living Things and Their Environment (4)

EEB263H1 - Comparative Vertebrate Anatomy

Hours: 24L/36P

The ontogeny and phylogeny of vertebrate structure are considered within the context of evolutionary theory. Functional aspects of the various organ systems are examined. Representative vertebrates are analyzed (with brief dissection of some forms) in laboratory to illustrate selected anatomical features and to provide practical exposure to vertebrate construction. (Lab Materials Fee: \$26)

Prerequisite: BIO120H1

Breadth Requirements: Living Things and Their Environment (4)

EEB266H1 - Animal Diversity: Invertebrates

Hours: 24L/18P

The diversity of invertebrates (e.g. sponges, jellyfish, flatworms, molluscs, segmented worms, round worms, arthropods, echinoderms and several smaller phyla) is explored, focusing on taxonomic characters that define each group and their placement in the evolutionary tree of life, ecological function, biological requirements, and geographical distribution. Labs emphasize identification and recognition of major groups, including dissection when appropriate. (Lab Materials Fee: \$26)

Prerequisite: BIO120H1

Breadth Requirements: Living Things and Their Environment (4)

EEB267H1 - Animal Diversity: Vertebrates

Hours: 24L/18P

Introduction to the diversity of chordate animals (vertebrates, tunicates, and lancelets), focusing on morphological, physiological, ecological and behavioural traits that make each group special and how those traits increase vulnerability to human-based exploitation. Labs involve living organisms whenever possible, but only for display purposes.

Prerequisite: BIO120H1

Breadth Requirements: Living Things and Their Environment (4)

EEB268H1 - Plant and Microbial Diversity

Hours: 24L/36P

Introduction to the biology of algae, fungi, and land plants. Lectures and labs emphasize the diversity of organisms with a focus on life cycles, ecology, and evolution. (Lab Materials Fee: \$26)

Prerequisite: BIO120H1

Breadth Requirements: Living Things and Their Environment (4)

EEB299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

EEB299H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

EEB313H1 - Quantitative Methods in R for Biology

Hours: 24L/24P

The quantitative analysis and management of biological data is crucial in modern life sciences disciplines. Students will develop skills with R as applied to problems in ecology and evolutionary biology to learn reproducible approaches for data management, data manipulation, visualization, modelling, statistical analysis, and simulation for solving biological problems.

Prerequisite: [BIO220H1](#), [EEB225H1](#)/ [STA288H1](#)/ [STA220H1](#)

Exclusion: [STA130H1](#), [PSY305H1](#)

Recommended Preparation: [CSC108H1](#)/ [CSC120H1](#)/ [CSC121H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

EEB314H1 - Modeling in Ecology and Evolution

Previous Course Number: EEB430H1

Hours: 24L/12P

Mathematics is central to science because it provides a rigorous way to go from a set of assumptions to their logical consequences. In ecology & evolution this might be how we think a virus will spread and evolve, how climate change will impact a threatened population, or how much genetic diversity we expect to see in a randomly mating population. In this course you'll learn how to build, analyze, and interpret mathematical models of increasing complexity through readings, lectures, homework, computer labs, and a final project. The focus is on deterministic dynamical models (recursions and differential equations) but we also touch on probability theory and stochastic simulations.

Prerequisite: [BIO220H1](#), [MAT136H1](#)/ [MAT137Y1](#)

Exclusion: [EEB430H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB318H1 - Principles of Evolution

Hours: 24L/12T

Principles and practice of evolutionary biology since Darwin. Topics may include: phylogeny, speciation, mutation and neutral evolution, population genetic variation, quantitative genetics, molecular evolution, natural selection and adaptation, evolutionary conflict and cooperation, and levels of selection.

Prerequisite: [BIO220H1](#)

Exclusion: [EEB323H1](#)/ [EEB324H1](#)

Recommended Preparation: [BIO260H1](#)/ [HMB265H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB319H1 - Population Ecology

Hours: 24L/36P

Abundance and distribution of populations; population growth and regulation; fluctuations, stochasticity and chaos; meta-population persistence and extinction; age and stage-structured populations; interactions within and between species; optimal harvesting; spread of infectious diseases. Labs include experiments and computer simulations. (Lab Materials Fee: \$26)

Prerequisite: [BIO220H1](#), ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#), and a course in statistics from [EEB225H1](#)/ [PSY201H1](#)/ [STA220H1](#)/ [STA250H1](#)/ [STA257H1](#)/ [STA288H1](#)/ [GGR270H1](#)/ [HMB325H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB320H1 - Dynamics of Ecosystem Processes

Hours: 24L/24P

This course explores the relationships and feedback between biological communities and the abiotic factors of ecosystems. The course will cover the biogeochemical dynamics of energy and nutrients through ecosystem development and the effects of global change on these processes. The lab component of the course will apply lecture concepts and tools to specific case studies. (Lab Materials Fee: \$26)

Prerequisite: [BIO220H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB321H1 - Community Ecology

Hours: 24L/36P

Nature and analysis of community structure; disturbance and community development; species interactions; community assembly processes. Computer exercises in weekly labs provide training in sampling, simulation, and data analysis.

Prerequisite: [BIO220H1](#) and a course in statistics from [EEB225H1](#)/ [PSY201H1](#)/ [STA220H1](#)/ [STA250H1](#)/ [STA257H1](#)/ [STA288H1](#)/ [GGR270H1](#)/ [HMB325H1](#)

Recommended Preparation: [EEB319H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB322H1 - Behaviour and Behavioural Ecology

Hours: 24L/36P

A broad introduction to animal behaviour emphasizing concepts from ethology and behavioural ecology, including foraging, predation, mating systems, parental care and behaviour genetics. Field and laboratory studies are undertaken. (Lab Materials Fee: \$26)

Prerequisite: [BIO220H1](#) and a course in statistics from [EEB225H1](#)/ [PSY201H1](#)/ [STA220H1](#)/ [STA250H1](#)/ [STA257H1](#)/ [STA288H1](#)/ [GGR270H1](#)/ [HMB325H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB323H1 - Evolutionary Genetics

Hours: 36L/12T

Evolutionary biology rests on a foundation of evolutionary genetics. This course focuses on the core ideas in population genetics and extends to evolutionary genomics. Students are exposed to the mathematical theory underlying evolutionary genetics and will learn the mathematical foundations underlying these ideas. Topics include the population genetics of mutation, migration, drift, and selection, evolutionary analysis of DNA sequences, genome evolution, and the evolution of sexual reproduction.

Prerequisite: [BIO220H1](#), [BIO260H1](#)/ [HMB265H1](#)

Recommended Preparation: ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB324H1 - Evolutionary Ecology

Hours: 36L/12T

Empirical and theoretical approaches to key areas of research including natural selection, sexual selection, and life histories. Other topics may include phenotypic plasticity, speciation, co-evolution, and quantitative genetics.

Prerequisite: [BIO220H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB325H1 - Evolutionary Medicine

Hours: 36L/12T

How evolutionary principles can help us better understand health and disease. Concepts from evolutionary biology (e.g., life history theory, coevolution, genomic conflict, constraints and trade-offs) will be applied to key problems in medicine and public health, including antibiotic resistance, aging, cancer, autoimmune disease, and pathogen virulence.

Prerequisite: [BIO130H1](#), [BIO220H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB328H1 - Physiological Ecology

Hours: 24L/24T

An advanced treatment of the physiological mechanisms controlling plant and animal distribution and ecological success. Topics of focus include photosynthesis and resource balance, water and nutrient relations, temperature effects, and adaptations to abiotic stress.

Prerequisite: [BIO220H1](#)

Recommended Preparation: [BIO251H1](#)/ [BIO270H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB340H1 - Comparative Plant Morphology

Hours: 24L/36P

This course addresses the origin of land plants and subsequent diversification of land plant vegetative and reproductive form and function. Lectures and laboratory tutorials synthesize morphological and anatomical knowledge from living organisms and fossil records with cellular, physiological and molecular information of land plants and their ancestors throughout geological time. Topics of study include the evolution of (i) vegetative and reproductive meristems, (ii) stem, leaf and root architecture, (iii) vascular tissue, (iv) the ovule habit, and (v) fertilization. (Lab materials fee: \$26).

Prerequisite: [BIO220H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EHJ352H1 - Human Evolutionary Genomics

Hours: 24L/12T

Human genome diversity and evolution with a focus on current research. The course integrates applications of

human evolutionary genomics to the understanding of human history and adaptation, the causes of disease, and genome structure and function. Topics include: comparative genomics, population genomics of adaptation, association mapping, polygenic scores, and repetitive/selfish DNA.

Prerequisite: [BIO220H1](#), [BIO260H1](#)/ [HMB265H1](#)

Breadth Requirements: Living Things and Their Environment (4)

JHE353H1 - History of Evolutionary Biology

Hours: 24L/10T

A historical examination of major ideas about biological evolution, with an emphasis on the period from the 18th century to the 1950s, and of their impact on scientific and social thought. Topics include the diversity of life and its classification, the adaptation of organisms to their environments, Wallace's and Darwin's views on evolution by natural selection, sexual selection, concepts and mechanisms of biological inheritance, and the implications of evolutionary theory for the organization of human society.

Prerequisite: 6.0 credits including a 0.5 credit from HPS/ EEB/ BIO

Exclusion: [HPS353H1](#)

Recommended Preparation: 2.0 HPS/ EEB/ BIO credits including 1.0 credit at the 200+ level

Breadth Requirements: Society and its Institutions (3)

JHE355H1 - History and Philosophy of Evolutionary Biology

Hours: 24L/10T

An examination of the place of the organism in evolutionary theory from the early 1900s to the present. Biology is the science of living things, and yet, paradoxically, living things--organisms--have been comprehensively left out of the Modern Synthesis theory of evolution that developed in the twentieth century. This course surveys the reasons--historical, philosophical and empirical--for the marginalization of organisms from evolutionary theory. It examines the ways in which evolutionary developmental biology attempts to restore the organisms to a central place in evolutionary biology. Offered by faculty in the Institute for the History and Philosophy of Science and Technology.

Prerequisite: 6.0 credits, of which 1.0 credit is from EEB/ BIO/ HPS courses

Recommended Preparation: [JHE353H1](#)

Breadth Requirements: Society and its Institutions (3)

EEB362H1 - Macroevolution

Hours: 24L/24T

Explores patterns and processes of large-scale evolutionary change, played out over large geographic expanses and extended periods of time. Integrates information from paleontology, phylogenetics, field studies, functional biology, and experiments to link emergent evolutionary patterns to underlying evolutionary processes. Topics include: speciation, phylogenetic inference, adaptive vs. non-adaptive evolution, evolutionary constraints, diversification and extinction, evolutionary innovations, historical biogeography, and the relationship between evolutionary history and ecology. Tutorials will illustrate common analytical approaches to macroevolutionary investigation and provide in-depth exploration of landmark studies in macroevolution.

Prerequisite: [BIO220H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB365H1 - Topics in Applied Conservation Biology

Hours: 24L/24P

Applied conservation biology including management (at the level of species/populations, environments/landscapes, and ecosystems) and how to conserve and maintain biodiversity and ecosystem function (including species and ecosystem distribution modelling).

Prerequisite: [BIO220H1](#), [EEB225H1](#)/ [ECO220Y1](#)/ [ECO227Y1](#)/ [GGR270H1](#)/ [HMB325H1](#)/ [PSY201H1](#)/ [SOC300Y1](#)/ [STA220H1](#)/ [STA250H1](#)/ [STA288H1](#)

Recommended Preparation: [EEB255H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB380H1 - Diversity of Insects

Hours: 24L/36P

Evolutionary history, morphology, physiology, development, behaviour, and ecological significance of insects. Labs focus on identification of major groups of insects found in Ontario and each student makes an insect collection. Insects are collected during field trips during class time and also on Saturday field trips early in the term. (Lab Materials Fee: \$26)

Prerequisite: BIO220H1

Breadth Requirements: Living Things and Their Environment (4)

EEB382H1 - Diversity of Fishes

Hours: 24L/18P

Systematics, morphology, ecology, behaviour, biogeography, and conservation of fishes. Identification of major groups of fish; what makes each group biologically special and how those unique traits might contribute to conservation concerns. Labs focus on exercises designed to highlight how ichthyologists actually do research. (Lab Materials Fee: \$26)

Prerequisite: BIO220H1

Breadth Requirements: Living Things and Their Environment (4)

EEB384H1 - Diversity of Amphibians and Reptiles

Hours: 24L/36P

Lectures and laboratories examine the natural history, morphology, behaviour, ecology, evolutionary relationships, and biogeography of amphibians (frogs and toads, salamanders, caecilians) and non-avian reptiles (turtles, the tuatara, lizards, snakes, and crocodilians). Students are required to purchase a \$25 lab manual.

Prerequisite: BIO220H1

Breadth Requirements: Living Things and Their Environment (4)

EEB386H1 - Diversity of Birds

Hours: 24L/24P

Diversity of Birds provides a general overview of bird biology and diversity, including bird origins and evolution, modern classification and diversity, flight evolution and mechanics, reproduction, ecology, and conservation. Labs focus on anatomy, functional morphology and field techniques that will be put into practice in a final field trip.

Prerequisite: BIO220H1

Exclusion: BIOD48H3/ BIO326H5

Breadth Requirements: Living Things and Their Environment (4)

EEB388H1 - Diversity of Mammals

Hours: 24L/36P

Lectures and laboratories examine the natural history, morphology, classification, evolutionary relationships, reproduction, biogeography, and conservation of mammals. Labs focus on the identification of mammals and their diverse morphological adaptations including mammals of Ontario.

Prerequisite: BIO220H1

Breadth Requirements: Living Things and Their Environment (4)

EEB390H1 - Vertebrate Paleontology: Major Transitions in Vertebrate History

Hours: 24L/18P

The evolutionary history of vertebrates is recorded in their fossil record. Lectures highlight the origin and radiation of major vertebrate clades, and emphasize key events in vertebrate history, notably major ecological and evolutionary transitions, and mass extinctions. Practicals (at the Royal Ontario Museum) explore fossils that exemplify these themes.

Prerequisite: BIO220H1; at least one of EEB263H1, EEB267H1, EEB362H1, EEB382H1, EEB384H1, EEB386H1, EEB388H1

Recommended Preparation: EEB263H1

Breadth Requirements: Living Things and Their Environment (4)

EEB397Y1 - Research Project in Ecology and Evolutionary Biology

An intermediate research project requiring the prior consent of a member of the Department to supervise the project. The topic is to be one mutually agreed on by the student and supervisor. They must arrange the time, place, and provision of any materials and submit to the Undergraduate Office a signed form of agreement outlining details prior to being enrolled. This course is open to highly self-motivated students who are in their Third Year and have a strong interest in ecology and/or evolutionary biology. Students are required to write up the results of their research in a formal paper, often in the format of a research article, and may be required to present the results at a poster session and/or participate in an oral presentation. Students should contact their potential supervisors over the summer before classes begin in September. Information regarding how to apply and register for the course is available on the EEB website. Not eligible for CR/NCR option. Note: cannot

enrol if already taken the fourth year research project course [EEB498Y1/ EEB499Y1](#).

Prerequisite: Completion of 9.0 credits.

Breadth Requirements: Living Things and Their Environment (4)

EEB398H0 - Research Excursions

An instructor-supervised project in an off-campus setting. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

EEB398Y0 - Research Excursion

An instructor-supervised group project in an off-campus setting. Details at:

<https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

EEB399H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

EEB399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

EEB401H1 - Marine Field Ecology

A two-week field course offered in Summer. The course will include activities in and around the ocean and its

shorelines with lectures and seminars combined with intensive field work on different marine habitats – from rocky reefs to kelp forests – and organisms. Students will conduct independent research projects. Comfortable with swimming is expected of students.

Students interested in taking an EEB field course apply directly to the department. Spaces for the course are limited, and student selection is based on a number of criteria that include:

1. background in EEB concepts and approaches (assessed through courses taken and grades);
2. benefit of course to student progress in their program of study and for professional development (assessed through courses taken and the student statement in the application)
3. interest and motivation for taking the course (assessed through the student statement in the application)
4. Year of study, with more senior students given preference.

See Departmental website for details. Not eligible for CR/NCR option.

Prerequisite: [BIO220H1](#) and permission of department

Recommended Preparation: A second or third year ecology, evolution, or environmental biology course.

Breadth Requirements: Living Things and Their Environment (4)

EEB403H1 - Tropical Field Biology

A two-week field course introducing students to the diversity of biological communities in the tropics focusing on ecological and evolutionary interactions. Plant and animal communities of the New World tropics are compared and contrasted with temperate communities. Student research projects included. Fee for accommodations, food, within course travel, station fee, etc., will apply.

Students interested in taking an EEB field course apply directly to the department. Spaces for the course are limited, and student selection is based on a number of criteria that include:

1. background in EEB concepts and approaches (assessed through courses taken and grades);
2. benefit of course to student progress in their program of study and for professional development (assessed through courses taken and the student statement in the application)
3. interest and motivation for taking the course (assessed through the student statement in the application)
4. Year of study, with more senior students given preference.

See Departmental website for details. Not eligible for CR/NCR option.

Prerequisite: BIO220H1 and permission of department

Recommended Preparation: A second or third year ecology, evolution or environmental biology course; and a course in statistics.

Breadth Requirements: Living Things and Their Environment (4)

EEB405H1 - Temperate Field Biology

A two-week field course offered (in May or August) at U of T's Koffler Scientific Reserve, King City, Ontario. Students learn the natural history of the region and conduct a field-based research project in ecology or evolutionary biology. A fee of \$800 for accommodations, food, within course travel, station fee, etc. will apply.

Students interested in taking an EEB field course apply directly to the department. Spaces for the course are limited, and student selection is based on a number of criteria that include:

1. background in EEB concepts and approaches (assessed through courses taken and grades);
2. benefit of course to student progress in their program of study and for professional development (assessed through courses taken and the student statement in the application)
3. interest and motivation for taking the course (assessed through the student statement in the application)
4. Year of study, with more senior students given preference.

See Departmental website for details. Not eligible for CR/NCR option.

Prerequisite: BIO220H1 and a course in statistics and permission of department

Recommended Preparation: A second- or third-year ecology, evolution or environmental biology course.

Breadth Requirements: Living Things and Their Environment (4)

EEB406H1 - Inter-University Field Course

A two-week field course offered between May and August by another Ontario university (to various locations) as part of the Ontario Universities Program in Field Biology (OUPFB). The selection of field course modules are announced in January. For registration information and additional fees information consult the EEB website; fees from \$350-5000 will be applied for field trip costs. Not eligible for CR/NCR option.

Prerequisite: Varies on module selected

Breadth Requirements: Living Things and Their Environment (4)

EEB428H1 - Global Change Ecology

Hours: 24L/24T

An examination of organism, population, and ecosystem responses to long-term environmental change occurring at the global scale, with emphasis on human caused perturbation to climate and the carbon, nitrogen, and hydrologic cycles and their ecological effects.

Prerequisite: BIO220H1 and at least 1.0 credit from EEB at the 300+ level

Breadth Requirements: Living Things and Their Environment (4)

ENV432H1 - Urban Ecology

Hours: 24L/12S

The ecology of urban areas through consideration of the biological and physical environments, in particular how the human-constructed environment alters pre-existing biophysical conditions and interactions. Encompasses a comparative perspective to study the development of these emerging ecosystems of increasing importance given global urbanization. Saturday field trip using local transit.

Prerequisite: BIO220H1 and at least one of EEB319H1/EEB321H1/EEB365H1

Breadth Requirements: Living Things and Their Environment (4)

EEB434H1 - Marine Ecology

Hours: 24L/18P

This course explores the study of ecological processes in marine and coastal habitats. The course will cover processes operating from individuals to populations and communities to ecosystems, and spanning daily to decadal scales, and meters to global scales. The lab component of the course will apply lecture concepts and tools to specific case studies, which include hands-on activities/experiments/field excursions, and/or data synthesis and analysis. (Lab materials Fee: \$26)

Prerequisite: BIO220H1/ (BIO120H1, ESS362H1)

Recommended Preparation: EEB225H1, EEB240H1

Breadth Requirements: Living Things and Their Environment (4)

EEB440H1 - Ecology and Evolution of Plant-Animal Interactions

Hours: 24L/24T

Major concepts in ecology and evolution from the perspective of plant-animal interactions. The richness of interactions between plants and animals is explored including antagonistic interactions (e.g., herbivory), mutualistic interactions (e.g., pollination, seed dispersal, ant-plant associations), and interactions involving multiple species across trophic levels.

Prerequisite: [BIO220H1](#), a course in statistics (from [EEB225H1](#) (recommended)/ [PSY201H1](#)/ [STA220H1](#)/ [STA257H1](#)/ [STA288H1](#)/ [GGR270H1](#)/ [HMB325H1](#)) and at least one of [EEB318H1](#)/ [EEB319H1](#)/ [EEB321H1](#)/ [EEB323H1](#)/ [EEB324H1](#)/ [EEB328H1](#)/ [EEB403H1](#)/ [EEB403H0](#)/ [EEB405H1](#)/ [EEB405H0](#)/ [EEB406H1](#)/ [EEB406H0](#)/ [EEB410H1](#)/ [EEB410H0](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB455H1 - Genes, Environment and Behaviour

Hours: 18L/18S

An examination of the Gene-Environment Interplay perspective as sources of individual differences in behaviour, from both mechanistic and evolutionary viewpoints. Both historical and recent studies are used to illustrate important concepts in the field. Student-led discussions address the evidence base for these concepts.

Prerequisite: [BIO220H1](#), [HMB265H1](#)/ [BIO260H1](#), and at least 12.0 credits (including 1.0 EEB credit at the 300+ level)

Recommended Preparation: [EEB322H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB458H1 - Evolutionary Quantitative Genetics

Hours: 24L/12P

This course will cover quantitative genetic theory for inheritance and evolution of continuous traits over contemporary timescales. Students will learn how to estimate statistical quantities such as genetic variances and heritability using classical pedigree analysis and more recent genomic methods. In the lab component students

will learn how to analyze quantitative genetic data sets using modern statistical software and methods.

Prerequisite: [EEB225H1](#)/ [STA221H1](#)/ [STA238H1](#)/ [STA248H1](#)/ [STA255H1](#)/ [STA261H1](#)/ [STA288H1](#); [EEB323H1](#)

Recommended Preparation: [MAT223H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB459H1 - Population Genetics

Hours: 24L/12T

A focus on theoretical population genetics, using mathematical models to understand how different evolutionary forces drive allele frequency change. Students learn how to mathematically derive classic results in population genetics. Topics include drift, coalescence, the relationship between population and quantitative genetics, selection in finite populations, and mutation load. Offered in alternate years.

Prerequisite: [BIO260H1](#)/ [HMB265H1](#), [EEB323H1](#)

Recommended Preparation: A solid understanding of basic algebra and calculus.

Breadth Requirements: Living Things and Their Environment (4)

EEB460H1 - Molecular Evolution and Genomics

Hours: 36L

Processes of evolution at the molecular level, and the analysis of molecular data. Gene structure, neutrality, nucleotide sequence evolution, sequence evolution, sequence alignment, phylogeny construction, gene families, transposition.

Prerequisite: [BIO220H1](#), [BIO230H1](#)/ [BIO255H1](#), [BIO260H1](#)/ [HMB265H1](#), [EEB225H1](#)/ [EEB318H1](#)/ [EEB323H1](#)/ [EEB362H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB462H1 - Phylogenetic Inference: Methods and Applications

Hours: 24L/24P

The representation of the evolutionary relationships in the form of phylogenetic trees has become a fundamental tool in many branches of biology. This course is an introduction to the core concepts and methods of

phylogenetic reconstruction including parsimony, likelihood, and Bayesian techniques, as well as advanced topics such as divergence time estimation, species-tree inference, and species delimitation. Through a combination of lectures, discussions, and computer labs, students will master the theory and practice of phylogenetics.

Prerequisite: [BIO220H1](#), [EEB225H1](#)/ [STA220H1](#)/ [STA247H1](#)/ [STA248H1](#)/ [STA261H1](#)/ [STA288H1](#)/ [GGR270H1](#)/ [PSY201H1](#)

Exclusion: [BIO443H5](#)

Recommended Preparation: [CSC108H1](#), [EEB125H1](#), [EEB323H1](#), [EEB362H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

EEB463H1 - Computing Stochastic Models in Evolutionary Biology

Hours: 36L

Probability and stochasticity underlie our understanding of evolutionary and ecological processes, but many students don't get to experience these concepts without a background in mathematics or computer science. This course explores the fundamentals of modelling and quantitative approaches in ecology, evolution, and organismal biology in an accessible way. We will cover the probabilistic foundations of ecological, evolutionary, and bioinformatic models and concepts by developing students' proficiency at developing their own code from scratch. Students are expected to bring laptops to class or contact the instructor to arrange a laptop loan during classes.

Prerequisite: [EEB318H1](#)/ [EEB323H1](#)/ [EEB324H1](#)/ [EEB362H1](#); [EEB125H1](#)/ [EEB225H1](#)/ [EEB313H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB465H1 - Advanced Topics in Biodiversity Science and Conservation Biology

Hours: 36L

Biodiversity in the Anthropocene. This course links the biological and social sciences to identify human goals for future biodiversity, methods to achieve this biodiversity, and to understand key issues such as the end of the wild, ecosystem services as a unit of conservation, animal welfare as a moral responsibility, and GMOs as biodiversity. Practical training may be provided in identifying species at risk, and in applying ecological-economics to trade-off decisions.

Prerequisite: [BIO220H1](#), [EEB255H1](#) and at least 1.0 credit from EEB at the 300+ level

Breadth Requirements: Living Things and Their Environment (4)

EEB466H1 - Approaches to the Study of Biodiversity

Hours: 24L/24P

This course uses the collections, research, and public gallery areas of the Royal Ontario Museum to expose students to the ways in which biodiversity is discovered, analyzed, and interpreted in a museum setting. Topics include: morphological and molecular approaches, taxonomy, classification, bioinformatics and e-taxonomy, and the interpretation of biodiversity for the public.

Prerequisite: [BIO220H1](#); [EEB266H1](#)/ [EEB267H1](#)/ [EEB268H1](#)/ [EEB331H1](#)/ [EEB365H1](#)/ [EEB380H1](#)/ [EEB382H1](#)/ [EEB384H1](#)/ [EEB386H1](#)/ [EEB388H1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB488H1 - Research Issues in Ecology and Evolutionary Biology

Hours: 42S

This course is taken concurrently by students who are enrolled in [EEB498Y1](#) Advanced Research Project in Ecology and Evolutionary Biology, and uses a combination of seminars, discussions, and presentations (including presentations by students) designed to cover issues commonly encountered when conducting research in ecology and evolutionary biology. Topics may include experimental design, effective use of statistics, scientific writing and publishing, public communication, ethics, and career development. Students will be required to attend weekly departmental seminars. This half-credit course runs from September to April and lectures meet in alternate weeks. Information regarding how to apply and enrol in the course is available on the EEB departmental website.

Prerequisite: Completion of 14.0 credits.

Corequisite: [EEB498Y1](#)

Exclusion: [EEB499Y1](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB491H1 - Seminar in Biodiversity and Conservation Biology

Hours: 24L

Seminar course in biodiversity and conservation biology, emphasizing critical thinking and the synthesis of ideas crossing disciplinary boundaries. Group discussions among peers, facilitated by faculty, and student presentations. Discussions include critical analysis of research and review articles in the primary literature, with a focus on recent developments in biodiversity science and conservation biology. Evaluation based on presentations, participation in class discussions, and written assignments. (Note: students may take this course only once)

Prerequisite: A minimum of 1.0 credit in EEB courses at the 300+ level

Exclusion: [EEB495H1](#)

Recommended Preparation: [EEB365H1](#) highly recommended

Breadth Requirements: Living Things and Their Environment (4)

EEB495H1 - Seminar in Ecology and Evolutionary Biology

Hours: 24S

Seminar course in ecology and evolutionary biology, emphasizing critical thinking and the synthesis of ideas crossing disciplinary boundaries. Group discussions among peers, facilitated by faculty, and student presentations. Discussions include critical analysis of research and review articles in the primary literature. Evaluation based on presentations, participation in class discussions, and written assignments. (Note students may take this course only once.)

Prerequisite: A minimum of 1.0 credit in EEB courses at the 300+ level

Exclusion: [EEB491H1](#)

Recommended Preparation: At least one 0.5 credit in ecology and one 0.5 credit in evolutionary biology is highly recommended.

Breadth Requirements: Living Things and Their Environment (4)

EEB497H1 - Research Studies in Ecology & Evolutionary Biology

An independent studies half-credit course allowing students to produce a literature review, which is supervised by a faculty member in the Department of Ecology and Evolutionary Biology. Highly motivated fourth-year students will work closely with a supervisor and be required to write up the results of their research in a final research paper. Students should contact a potential supervisor well before classes begin in the fall, winter, or summer session. Students cannot take more than two independent research courses of EEB 497H1, 498Y1, and

499Y1, and the second project must be with a different supervisor. Students cannot take multiple EEB research courses concurrently. Information on how to apply for the course is available on the EEB website. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits.

Breadth Requirements: Living Things and Their Environment (4)

EEB498Y1 - Advanced Research Project in Ecology and Evolutionary Biology

An advanced research project (a literature review alone is not sufficient) requiring the prior consent of a member of the Department to supervise the project. The topic is to be one mutually agreed on by the student and supervisor. They must arrange the time, place, and provision of any materials and submit to the Undergraduate Office a signed form of agreement outlining details prior to being enrolled. This course is open only to highly self-motivated students who are in their Fourth-Year and have adequate background in ecology and/or evolutionary biology. Students are required to write up the results of their research in a formal paper, often in the format of a research article, and are also required to present the results at a poster session and/or oral presentation. The time commitment is approximately 8 hours per week. Students should contact their potential supervisors over the summer before classes begin in September. Information regarding how to apply and register for the course is available on the EEB website. Students in this course are also concurrently enrolled in [EEB488H1Y](#) Research Issues in Ecology and Evolutionary Biology. Students cannot take multiple EEB research courses concurrently. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits.

Corequisite: [EEB488H1Y](#)

Breadth Requirements: Living Things and Their Environment (4)

EEB499Y1 - Advanced Research Project in Ecology and Evolutionary Biology II

An advanced research project (a literature review alone is not sufficient) that allows students to do another independent project, supervision of which must be different from [EEB497H1](#)/ [EEB498Y1](#). It requires the prior consent of a member of the Department to supervise the project. The topic is to be one mutually agreed on by the student and supervisor. They must arrange the time, place, and provision of any materials and submit to the Undergraduate Office a signed form of agreement outlining details prior to being enrolled. This course is open only to highly self-motivated students who are in their Fourth Year and have adequate background in

ecology and/or evolutionary biology. Students are required to write up the results of their research in a formal paper, often in the format of a research article, and are also required to present the results at a poster session and/or oral presentation. The time commitment is approximately 8 hours per week. Students should contact their potential supervisors over the summer before classes begin in September. Information regarding how to apply and register for the course is available on the EEB website. Students cannot take multiple EEB research courses concurrently. Not eligible for CR/NCR option.

Prerequisite: EEB497H1/ EEB498Y1 and must have completed 14.0 credits.

Breadth Requirements: Living Things and Their Environment (4)

Economics

Faculty List

University Professor Emeritus

S. Hollander, OC, BScEcon, PhD, LLD, FRSC

Professors Emeriti

G. Anderson, MSc, PhD (University of Toronto Mississauga)

R.A. Berry, BA, PhD

J.D. Bossons, AM, PhD

J.L. Carr, MA, PhD

F.R. Casas, MSc, PhD

J.S. Cohen, MA, PhD

D.N. Dewees, BSc, LL B, PhD

M. Faig, MA, PhD (University of Toronto Mississauga)

J.E. Floyd, MA, PhD

D.K. Foot, AM, PhD

M.A. Fuss, MA, PhD

M. Gunderson, MA, PhD, FRSC

M.J. Hare, BCom

G.K. Helleiner, OC, MA, PhD, FRSC

S. Howson, MA, PhD

G. Indart, MA, PhD

Y. Kotowitz, BA, PhD

A.M. Kruger, BA, PhD

G.F. Mathewson, BCom, PhD

M.J. Osborne, BA, PhD

C. Pitchik, MSc, PhD (University of Toronto Mississauga)

K.J. Rea, MA, PhD

F.J. Reid, MSc, PhD

A. Siow, BA, PhD

L.B. Smith, AM, PhD

L. Waverman, MA, PhD

T.A. Wilson, AM, PhD, FRSC

J.W.L. Winder, MA, PhD

X. Zhu, MS, PhD (University of Toronto Mississauga)

Professor and Chair of the Department

E. Damiano, MA, PhD

Associate Professor and Associate Chair, Graduate Studies

R. McMillan, BA, PhD (University of Toronto Mississauga)

Professor, Teaching Stream and Associate Chair, Undergraduate Studies

R. Gazzale, MA, PhD

University Professor

M. Trebilcock, FRSC, LL.M.

Professors

V. Aguirregabiria, MSc, PhD

V.A. Aivazian, BS, PhD (University of Toronto Mississauga)

M. Alexopoulos, MA, PhD

M. Baker, MA, PhD

H.D. Benjamin, MA, PhD

G. Bobonis, BA, PhD

L. Brandt, BS, PhD

G. Carroll, BA, PhD

R. Deb, MA, M Phil, PhD (University of Toronto Mississauga)

M. Duarte, MA, PhD (University of Toronto Mississauga)

C. Gourieroux, PhD

Y. Halevy, MA, PhD

G. Kambourov, MA, PhD (University of Toronto Mississauga)

K. Kroft, MA, PhD

A. Melino, BA, PhD (University of Toronto Mississauga)

J. Mondria, MA, PhD

I. Mourifié, MSc, PhD

P. Oreopoulos, MA, PhD (University of Toronto Mississauga)

R. Owen, MA, PhD

M. Peski, MA, PhD

D. Restuccia, MA, PhD

X. Shi, MA, PhD (University of Toronto Mississauga)

M. Smart, MA, PhD

C. Stewart, MA, PhD

D. Treffler, MA, PhD

A.J. Yatchew, MA, PhD

Professors, Teaching Stream

R. Gazzale, MA, PhD

J. Murdock, M Phil, PhD

Associate Professors

A. Blouin, MA, PhD

M. Burda, MA, PhD

S. Eli, BA, PhD

G. Hamilton, MA, PhD

J. Gu, BS, MA, PhD (University of Toronto Mississauga)

B. Kuruscu, MA, PhD

Y. Luo, MA, PhD

R. McMillan, BA, PhD (University of Toronto Mississauga)

P. Morrow, MA, PhD

E. Souza Rodrigues, MA, MSc, MPhil, PhD (University of Toronto Mississauga)

J. Steinberg, BA, PhD

Y. Wan, MA, PhD

R. Wolthoff, MSc, PhD (University of Toronto Mississauga)

Associate Professors, Teaching Stream

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K. Freitas, BSc, PhD
 S.A. Hussain, MA, PhD
 K. Yu, MA, PhD (University of Toronto
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Assistant Professors

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 C. Baysan, MS, PhD
 M. Celik, BA, PhD
 Y. Chen, BA, MA, PhD
 S. Dyrda, MA, PhD (University of Toronto
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 A. Farhoodi, BSc, MSc, PhD
 J. Hall, BA, PhD
 M. Koffi, BSc, MSc, PhD
 K. Lim, MA, PhD
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 M. Rempel, MA, PhD (University of Toronto
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 A. Roesler, MSc, PhD
 M. Stepner, BA, PhD
 A. Tsoy, MA, PhD
 C. Van Effenterre, MA, PhD
 N. Vellekoop, LL.M, MSc, PhD
 E. Vivalt, M Phil, MA, PhD
 T. Wang, MA, PhD
 R. Zarate, BA, MA, PhD (University of Toronto
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 Y. Zhao, BSc, MSc, PhD (University of Toronto
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Assistant Professors, Teaching Stream

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 N. Khazra, BSc, MSc, PhD
 K. Ugarte-Bravo, MA, PhD
 C. Ward, BA, MA, PhD
 A. Weisbrod, PhD (University of Toronto
 Mississauga)
 N. Zammit, MA, PhD (University of Toronto
 Mississauga)

Adjunct Associate Professor

D.P. Dungan, MA, PhD

Sessional Lecturers

M. Anjomshoa, MA, M Phil
 R. Barber, MA, LL.M
 C. D'Souza, BA, PhD
 K. Furlong, MA, PhD
 N. Soboleva, MSc/BSc, MA, MA/Phil, PhD
 A. Yang, MBA, MS, PhD

Much of human activity is directed towards the satisfaction of material wants. In many areas of the world, the greater part of human effort must be directed towards meeting the most elemental demands for food, clothing, and shelter. Even in technologically advanced societies, where these basic requirements can be met with comparative ease, the desire for more goods and services never appears to be fully satisfied. In consequence, every society - whatever its political orientation - is both competitive and cooperative. It is competitive because its members contend with one another to satisfy their individual wants from a limited supply of productive resources. It is cooperative because the greatest supply of goods is available when the activity of producing them is coordinated and organized. Economics deals with any issue arising out of the conflict between the demand for goods and services, and a limited supply of resources to satisfy those demands.

Undergraduate training in economics is intended to familiarize students with the discipline of economic thinking, to equip them to better understand human behaviour, and for the intelligent appraisal of contemporary economic problems.

Economics makes considerable use of mathematics in its enquiries. All economics programs require at least one course in mathematics.

An undergraduate degree is generally not sufficient to become a professional economist. For this or other reasons, graduate work may be necessary. Students who wish to do graduate work should seek advice from the Department concerning their choice of courses. The Economics Specialist and the Economics and Mathematics programs, with their greater emphasis on mathematics, are designed to prepare students for graduate study, and are excellent starting points. Appropriate coursework can certainly be achieved, however, through the Economics Major, often in combination with another program.

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Introduction

Economics is a social science that encompasses a broad range of human behaviour and has a strong influence on the structure, well-being and development of a society.

Regarding Economics Programs

These are limited enrolment programs. All students who request the program and obtain at least the specified mark(s) in the required course(s) will be eligible to enrol (please read entry requirements for each program)

carefully). Consult the [Arts & Science Program Toolkit](#) for details and instructions.

NOTE: Please read prerequisites and exclusions carefully. Course prerequisites are strictly enforced and are not just “recommended preparation.” For all mathematics and statistics course prerequisites, the level of the course is also important. For all third- and fourth-year economics courses, FULL YEAR (Y-course, 1.0 credit) intermediate course prerequisites are mandatory: a similar “half course” (H-course, 0.5 credit) version is not acceptable. All prerequisites must be fully completed BEFORE a course can be taken. Courses that are prerequisites cannot be taken simultaneously with the courses for which they are a prerequisite (i.e., they are not “co-requisites”). Students from other institutions must show their transcripts to the department if they are using prior courses as prerequisites. The same rules apply.

Economics Programs

Financial Economics Specialist (Science Program) - ASSPE2722

Enrolment Requirements:

This is a limited enrolment program. Students must meet the requirements listed below to enrol.

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- ECO206Y1(80%)
- ECO208Y1(80%)
- ECO227Y1(80%) / (STA257H1(80%), STA261H1(80%))

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 80% will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

Special Requirement

- In order to apply for the Financial Economics Specialist Program, a student must first be enrolled in the Economics Major (ASMAJ1478). Upon acceptance to the Financial Economics Specialist Program, your Specialist enrolment will replace your Economics Major.

- Students enrolled in this program cannot be simultaneously enrolled in any other Economics program or the Environmental Economics minor.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Financial Economics Specialist in the Summer after Year 2. Financial Economics Specialist students also enrolled in Rotman Commerce are not eligible to join the ASIP stream. ASIP students enrolled in the Economics Major can transfer to the ASIP stream of the Financial Economics Specialist without needing to reapply to ASIP.

Completion Requirements:

Program Course Requirements: 13.0 credits

First Year (2.0 credits):

1. [ECO101H1](#), [ECO102H1](#)
2. ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)

Note: [MAT133Y1](#) is not a suitable substitute for ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#).

Second Year (Core Courses, 3.0 credits):

- [ECO206Y1](#), [ECO208Y1](#), [ECO227Y1](#)/ ([STA257H1](#), [STA261H1](#))

Third Year (Core Courses, 2.5 credits):

1. [ECO325H1](#), [ECO326H1](#), [ECO375H1](#)
2. [ECO358H1](#), [ECO359H1](#)

Third Year and Higher (Electives, 5.5 credits, at least 1.0 credit at the 400-level):

1. 1.0 credit from [ECO349H1](#), [ECO356H1](#), [ECO440H5](#), [ECO456H1](#), [ECO461H1](#)/ [ECO460H5](#), [ECO462H1](#), [ECO464H1](#), [ECO465H1](#), [ECO475H1](#)
2. 4.5 additional credits from 300+ level ECO courses

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\)](#) stream.

Notes:

1. A minimum of 70% is required in ECO101H1 and ECO102H1 to meet prerequisites for specialist-level intermediate ECO courses (ECO206Y1, ECO208Y1, ECO227Y1).
2. Some required courses at upper-year levels may be offered only on the St. George or on the University of Toronto Mississauga campus in any given year. Students registered in this program at either campus may have to attend lectures on the other campus in such cases.
3. MAT221H1/ MAT223H1/ MAT240H1 is recommended as preparation for ECO375H1. Students taking one of these MAT courses can have it count in lieu of a 0.5 300-level ECO course required for this program.
4. (MAT235Y1/ MAT237Y1)/ ECO210H1 is strongly recommended for this program. Students taking one of these courses can have it count in lieu of 0.5 300-level course required for this program.
5. ECO475H1 is strongly recommended.
6. STA302H1/ STA303H1 are not accepted in lieu of ECO375H1.
7. CSC108H1/ CSC148H1/ CSC110Y1 (introductory programming) is strongly recommended for students interested in graduate studies.

Economics & Mathematics Specialist (Science Program) - ASSPE2599

Enrolment Requirements:

This is a limited enrolment program. Students must meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- ECO206Y1(70%)
- ECO208Y1(70%)
- MAT137Y1 (60%)/ MAT157Y1(60%).

Special Requirement

- In order to apply for the Economics and Mathematics Specialist Program, a student must first be enrolled in the Economics Major (ASMAJ1478) or Mathematics Major (ASMAJ1165). Upon acceptance to the Economics and Mathematics Specialist Program, your Specialist enrolment will replace your Economics Major.
- Students enrolled in this program cannot be simultaneously enrolled in any other Economics program or the Environmental Economics minor.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream

after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Economics & Mathematics Specialist in the Summer after Year 2. Economics & Mathematics Specialist students also enrolled in Rotman Commerce are not eligible to join the ASIP stream. ASIP students enrolled in the Economics Major can transfer to the ASIP stream of the Economics & Mathematics Specialist without needing to reapply to ASIP.

Completion Requirements:

Program Course Requirements: 13.0 credits

First Year (2.0 credits):

1. ECO101H1, ECO102H1
2. MAT137Y1/ MAT157Y1

Second Year and Higher (Core Courses, 8.5 credits):

1. ECO206Y1, ECO208Y1, ECO220Y1/ ECO227Y1/ (STA257H1, STA261H1)
2. 0.5 credit from: CSC108H1/ CSC148H1/ CSC110Y1
3. MAT223H1/ MAT240H1, MAT224H1/ MAT247H1, MAT237Y1/ MAT257Y1, MAT246H1
4. ECO325H1, ECO326H1, ECO375H1
5. MAT337H1/ MAT357H1, APM462H1

Third Year and Higher (Elective Courses, 2.5 credits):

1. 0.5 credit 300+ level ECO course
2. 1.0 credit from 400-level ECO courses
3. 1.0 credit from 300-level or higher MAT (or APM) courses (in addition to APM462H1).

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

1. A minimum of 70% is required in ECO101H1 and ECO102H1 to meet prerequisites for specialist-level intermediate ECO courses (ECO206Y1, ECO208Y1, ECO227Y1).
2. Students must meet all prerequisites for upper-year math courses, and should choose their sequencing of courses accordingly.
3. CSC108H1/ CSC148H1/ CSC110Y1 may be taken in First Year.
4. MAT223H1/ MAT240H1 may be taken in First Year.
5. ECO475H1 is strongly recommended.

6. STA302H1/ STA303H1 are not accepted in lieu of ECO375H1.
7. Students with MAT157Y1 cannot take MAT246H1 (it is an exclusion). Such students can instead substitute any 300-level MAT or APM course to meet the MAT246H1 requirement.

2. (MAT135H1, MAT136H1/ MAT137Y1/ MAT157Y1

Note: MAT133Y1 is not a suitable substitute for (MAT135H1, MAT136H1/ MAT137Y1/ MAT157Y1.

Second Year (Core Courses, 3.0 credits):

- ECO206Y1, ECO208Y1, ECO220Y1/ ECO227Y1/ (STA257H1, STA261H1)

Third Year (Core Courses, 1.5 credits):

- ECO325H1, ECO326H1, ECO375H1

Third Year and Higher (ECO Electives, 5.5 credits):

1. 4.5 credits from 300-level or higher ECO courses
2. 1.0 credit from 400-level ECO courses

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

1. A minimum of 70% is required in ECO101H1 and ECO102H1 to meet prerequisites for specialist-level intermediate ECO courses (ECO206Y1, ECO208Y1, ECO227Y1).
2. ECO210H1 is highly recommended, especially for students interested in graduate studies. Students may count ECO210H1 towards the Specialist program in lieu of a 0.5 credit 300-level ECO elective.
3. While 200-level or higher math or statistics courses may complement the Economics Specialist courses, they **cannot** be used as substitutes for economics courses in this program.
4. Students are nevertheless encouraged to take more math if they plan on pursuing graduate studies. Students should especially consider MAT221H1/ MAT223H1/ MAT240H1 (Linear Algebra), MAT235Y1/ MAT237Y1 (Multivariate Calculus), MAT246H1 (Abstract Mathematics), or even consider doing a Minor program in Mathematics.
5. ECO475H1 is strongly recommended.
6. STA302H1/ STA303H1 are not accepted in lieu of ECO375H1.
7. (STA237H1, STA238H1) are not accepted in lieu of ECO220Y1/ ECO227Y1/ (STA257H1, STA261H1).
8. CSC108H1/ CSC148H1/ CSC110Y1 (introductory programming) is strongly recommended for students interested in graduate studies.

Economics Specialist (Arts Program) - ASSPE1478

Enrolment Requirements:

This is a limited enrolment program. Students must meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- ECO206Y1 (70%)
- ECO208Y1 (70%)
- ECO220Y1(70%)/ ECO227Y1(70%)/ (STA257H1(70%), STA261H1(70%))

Special Requirement

- In order to apply for the Economics Specialist Program, a student must first be enrolled in the Economics Major (ASMAJ1478). Upon acceptance to the Economics Specialist Program, your Specialist enrolment will replace your Economics Major.
- Students enrolled in this program cannot be simultaneously enrolled in any other Economics program or the Environmental Economics minor.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Economics Specialist in the Summer after Year 2. Economics Specialist students also enrolled in Rotman Commerce are not eligible to join the ASIP stream. ASIP students enrolled in the Economics Major can transfer to the ASIP stream of the Economics Specialist without needing to reapply to ASIP.

Completion Requirements:

Program Course Requirements: 12.0 credits

First Year (2.0 credits):

1. ECO101H1, ECO102H1

Focus in Data Analytics (Specialist) - ASFOC1478A

Students in the Economics Specialist program who undertake a Focus in Data Analytics will gain advanced ability in applied empirical economics. The Focus (for specialists) provides students with hands-on exposure to the tools empirical economists use to build and analyze datasets - programming languages such as Python, and software programs to manage, statistically analyze, and visualize data such as Excel, GIS, Stata and R. The Specialist Focus will also direct students to required and elective empirical economics courses that apply these tools in a wide variety of contexts.

Enrolment Requirements:

Enrolment in the Economics Specialist program (ASSPE1478) is required.

Completion Requirements:

(5.0 credits)

- 0.5 credit from: CSC108H1, CSC110Y1, CSC148H1
- ECO225H1/ GGR272H1/ JSC270H1
- ECO372H1
- ECO374H1
- ECO475H1
- 2.0 credits of 300+ ECO elective courses from: ECO310H1, ECO334H1, ECO339H1, ECO340H1, ECO353H1, ECO354H1, ECO367H1, ECO380H1 (or the 400-level courses listed below (#7))
- 0.5 credit 400-level ECO course from: ECO401H1, ECO403H1, ECO404H1, ECO418H1, ECO439H1, ECO446H1, ECO464H1, ECO466H1, ECO480H1, ECO481H1, ECO482H1, ECO483H1, ECO499H1

Economics Major (Arts Program) - ASMAJ1478

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- (ECO101H1 (63%), ECO102H1 (63%))/ ECO105Y1 (80%)

- MAT133Y1 (63%)/(MAT135H1 (60%), MAT136H1 (60%))/ MAT137Y1 (55%)/ MAT157Y1 (55%)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Economics Major in the Summer after Year 2 and have completed the following courses prior to ASIP entry, with the posted minimum grades: ECO200Y1(60%) or ECO206Y1(50%), ECO220Y1(60%) or ECO227Y1(50%) or STA237H1(60%), STA238H1(60%) or STA247H1(60%), STA248H1(60%) or STA257H1(50%), and STA261H1(50%). Economics Major students also enrolled in Rotman Commerce are not eligible to join the ASIP stream.

Completion Requirements:

Program Course Requirements: 7.0 credits

First Year (2.0 credits):

- (ECO101H1, ECO102H1)/ ECO105Y1;
- MAT133Y1/(MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Second Year (Core Courses, 3.0 credits):

- ECO200Y1/ ECO204Y1/ ECO206Y1,
- ECO202Y1/ ECO208Y1/ ECO209Y1,
- ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Third and Higher Years (ECO Electives, 2.0 credits):

- 1.5 credits from 300+ level ECO courses
- At least a 0.5 credit 400-level ECO course

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

- Eligibility for all Economics programs is based, in part, on attaining a minimum grade in ECO101H1 and ECO102H1 (or ECO105Y1). Students are reminded that in order to achieve the required minimum grade in the above-mentioned courses, they may repeat a specific *passed* course only once as per Faculty regulations.

- Students in the Major program considering graduate studies in Economics are advised to take the more mathematical stream courses ([ECO206Y1](#), [ECO208Y1](#)), and also some or all of the 300-level advanced micro, macro, and econometrics sequence ([ECO325H1](#), [ECO316H1](#)/ [ECO326H1](#), and [ECO375H1](#)).
- Students considering graduate studies in Economics are also encouraged to take more than the minimum amount and level of math. Students should especially consider [MAT221H1](#)/ [MAT223H1](#)/ [MAT240H1](#) (Linear Algebra), [MAT235Y1](#)/ [MAT237Y1](#) (Multivariate Calculus), [MAT246H1](#) (Abstract Mathematics), or even consider doing a Minor program in Mathematics.
- [STA220H1](#) and [STA255H1](#) are not accepted for the major.
- Students enrolled in this program cannot be simultaneously enrolled in any other Economics program or the Environmental Economics minor.

Focus in Data Analytics (Major) - ASFOC1478B

The Focus in Data Analytics (major) ensures that students gain proficiency in applied empirical economics. It provides students with hands-on exposure to the tools empirical economists use to build and analyze datasets - programming languages such as Python, and software programs to manage, statistically analyze, and visualize data such as Excel, GIS, Stata and R. The focus will also direct students to empirical economics courses that apply these tools in a wide variety of contexts.

Enrolment Requirements:

Enrolment in the Economics Major program (ASMAJ1478) is required.

Completion Requirements:

(3.0 credits)

- 0.5 credit from: [CSC108H1](#), [CSC110Y1](#), [CSC148H1](#)
- [ECO225H1](#)/ [GGR272H1](#)/ [JSC270H1](#)
- [ECO372H1](#)
- 1.0 credit of 300+ ECO elective courses from: [ECO310H1](#), [ECO334H1](#), [ECO339H1](#), [ECO340H1](#), [ECO353H1](#), [ECO354H1](#), [ECO367H1](#), [ECO374H1](#), [ECO375H1](#), [ECO380H1](#) (or the 400-level courses listed below (#5))
- 0.5 credit 400-level ECO course from: [ECO401H1](#), [ECO403H1](#), [ECO404H1](#), [ECO418H1](#), [ECO439H1](#), [ECO446H1](#), [ECO464H1](#), [ECO466H1](#), [ECO475H1](#), [ECO480H1](#), [ECO481H1](#), [ECO482H1](#), [ECO483H1](#), [ECO499H1](#)

Economics Minor (Arts Program) - ASMIN1478

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- [ECO101H1](#) (63%) and [ECO102H1](#) (63%)/ [ECO105Y1](#) (80%)
- [MAT133Y1](#) (63%)/([MAT135H1](#) (60%) and [MAT136H1](#) (60%))/ [MAT137Y1](#) (55%)/ [MAT157Y1](#) (55%)

Completion Requirements:

Program Course Requirements: 4.0 credits

First Year (2.0 credits):

- ([ECO101H1](#) and [ECO102H1](#))/ [ECO105Y1](#)
- [MAT133Y1](#)/([MAT135H1](#) and [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)

Second Year (Core Courses, 1.0 credit):

- [ECO200Y1](#)/ [ECO204Y1](#)/ [ECO206Y1](#)

Third and Higher Years (ECO Electives, 1.0 credit):

- 1.0 credit from 300+ level ECO courses

Notes:

- Students enrolled in this program cannot be simultaneously enrolled in any other Economics program or the Environmental Economics minor.
- Eligibility for all Economics programs is based, in part, on attaining a minimum grade in [ECO101H1](#) and [ECO102H1](#) (or [ECO105Y1](#)). Students are reminded that in order to achieve the required minimum grade in the above-mentioned courses, they may repeat a specific *passed* course only once as per Faculty regulations.
- Many 300-level and higher courses in economics **require** [ECO220Y1](#). While not a formal part of the Economics Minor program, students **MUST** meet the specified prerequisites for 300+ economics courses, and should seriously consider taking [ECO220Y1](#).

- Environmental Economics - See [School of the Environment](#)

Other Programs

- Finance & Economics (BCom) - See [Rotman Commerce](#)

Economics Courses

ECO101H1 - Principles of Microeconomics

Hours: 24L/12T

An introduction to economic analysis and its applications: price determination, market structure, decision making by individuals and firms, public policy. NOTE: extensive use of graphical and quantitative analysis.

Exclusion: [ECO105Y1](#), [ECO100Y5](#), [ECO101H5](#), [MGEA01H3](#), [MGEA02H3](#), [PPG201H1](#)

Recommended Preparation: MCV4U (Calculus & Vectors) and MHF4U (Advanced Functions), or equivalent secondary school mathematics credits

Breadth Requirements: Society and its Institutions (3)

ECO102H1 - Principles of Macroeconomics

Hours: 24L/12T

An introduction to economic analysis and its applications from a macroeconomic (economy-wide) perspective. Topics covered include international trade and finance, role of money and the banking system, monetary and fiscal policy. Note: graphical and quantitative analysis are used extensively.

Prerequisite: [ECO101H1](#)/ [ECO101H5](#)/ [MGEA02H3](#)

Exclusion: [ECO105Y1](#), [ECO100Y5](#), [ECO102H5](#), [MGEA05H3](#), [MGEA06H3](#)

Recommended Preparation: MCV4U (Calculus & Vectors) and MHF4U (Advanced Functions), or equivalent secondary school mathematics credits

Breadth Requirements: Society and its Institutions (3)

ECO105Y1 - Principles of Economics for Non-Specialists

Hours: 48L/24T

Fundamentals for consumers, businesses, citizens. Microeconomics focuses on cost/benefit analysis: gains from trade, price coordination, competition/monopoly,

efficiency/equity tradeoffs, government/market failures, environmental policies, income/wealth distributions. Macroeconomics focuses on: GDP growth, unemployment, inflation, monetary/fiscal policies, business cycles, exchange rates, government deficits/debt, globalization. Emphasizes economic literacy, fewer mathematical tools than [ECO101H1](#), [ECO102H1](#).

Exclusion: [ECO101H1](#), [ECO102H1](#), [ECO100Y5](#), [ECO101H5](#), [ECO102H5](#), [MGEA01H3](#), [MGEA02H3](#), [MGEA05H3](#), [MGEA06H3](#)

Breadth Requirements: Society and its Institutions (3)

ECO196H1 - An Economist's Guide to the Galaxy

Hours: 24S

Climb aboard as we seek answers to the "Ultimate Question of Life, the Universe, and Everything" (Douglas Adams). Unlike the Hitchhiker's Guide to the Galaxy, the answer will not be 42. Prepare for a wide-ranging journey into the questions economists seek to answer and the evidence they muster to examine these questions. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ECO197H1 - Seminar on Classical Economic Thought

Hours: 24L/12T

This seminar examines the basic ideas of the five most notable economic thinkers before 1870: Aristotle, Adam Smith, Thomas Malthus, David Ricardo, and Karl Marx. We focus on demand as the basis of price in Aristotle; the ambiguity in Smith between a labour theory of value and a demand/supply theory of value; the principle of population in Malthus; Ricardo's labour theory of value and his theory of rent and economic growth; and Marx's labour theory of value as the explanation for the development of capital. The understanding in these authors of economics as an historical process of production gives fascinating insights into modern economic development that contrast with the modern economic concentration on the distribution of resources in a world of scarcity. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ECO198H1 - Seminar on Modern Economic Thought

Hours: 24L/12T

This seminar examines the development of modern economic thought from the marginal revolutionaries (Jevons and Menger) who proclaimed that demand in the form of utility was the basis of price to the supply/demand analysis of Alfred Marshall that established modern microeconomics by 1890. We then look at Irving Fisher's 1907 foundation of the modern concept of the interest rate and the present value of capital before reviewing J.M. Keynes' 1936 criticism of neo-classical positions on full employment and interest rates in arguing for government manipulation of interest rates to ensure full employment. We finish with Milton Friedman's championing of the unregulated market economy through his quantity theory of money critique of Keynes. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ECO199H1 - Economics and Sustainable, Green Development

Hours: 24L/12T

Economic growth has been a powerful force through history in improving living standards throughout the world. At the same time, there is a growing recognition that environmental damages frequently accompany this growth, whether it be at the local level (soil degradation and deforestation), or the global level (climate change). Economics studies the allocation of scarce resources, but how can it incorporate "the environment" in a meaningful way that can help guide policy-makers in the 21st century? This course is a fast review of economic approaches and tools, and a review of a wide range of environmental policies, designed to manage the possible adverse impacts of economic expansions. The major emphasis in this course is on the market-based policies that guarantee incentive compatibility of these policies, thus, a higher chance of success. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ECO200Y1 - Microeconomic Theory

Hours: 48L/24T

Theory of markets and prices. Determination of prices through the interaction of the basic economic units, the household as consumer and as supplier of inputs and the business firm as producer and as employer of inputs. The pricing system as the mechanism by which social decisions and allocation of goods are made in a market economy.

Prerequisite: (ECO101H1(63%), ECO102H1(63%))/ ECO105Y1(80%)/ ECO100Y5(67%)/ (ECO101H5(63%), ECO102H5(63%))/ (MGEA02H3 (67%), MGEA06H3 (67%)); MAT133Y1/ (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Exclusion: ECO204Y1, ECO206Y1, ECO200Y5, ECO204Y5, ECO205Y5, ECO206Y5, MGEB01H3, MGEB02H3, MGEC02H3

Breadth Requirements: Society and its Institutions (3)

ECO202Y1 - Macroeconomic Theory and Policy

Hours: 48L/24T

Theory of output, employment and the price level; techniques for achieving economic stability; central banking and Canadian financial institutions and markets; foreign exchange markets and the exchange rate. This course is not intended for students enrolled in the BCom program; please see ECO209Y1.

Prerequisite: (ECO101H1(63%), ECO102H1(63%))/ ECO105Y1(80%)/ ECO100Y5(67%)/ (ECO101H5(63%), ECO102H5(63%))/ (MGEA02H3 (67%), MGEA06H3 (67%)); MAT133Y1/ (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Exclusion: ECO208Y1, ECO209Y1, ECO202Y5, ECO208Y5, ECO209Y5, MGEB05H3, MGEB06H3, MGEC06H3

Breadth Requirements: Society and its Institutions (3)

ECO204Y1 - Microeconomic Theory and Applications (for Commerce)

Hours: 48L/24T

The use of microeconomics to analyze a variety of issues from marketing and finance to organizational structure. Consumer preferences and behaviour; demand, cost analysis and estimation; allocation of inputs, pricing and firm behaviour under perfect and imperfect competition; game theory and public policy, including competition policy. Business cases are used to connect theory and practice and to highlight differences and similarities between economics and accounting, marketing and finance. This course is restricted to students in the Commerce programs.

Prerequisite: (ECO101H1(63%), ECO102H1(63%))/
ECO105Y1(80%); MAT133Y1/ (MAT135H1, MAT136H1)/
MAT137Y1/ MAT157Y1

Exclusion: ECO200Y1, ECO206Y1

Breadth Requirements: Society and its Institutions (3)

ECO206Y1 - Microeconomic Theory

Hours: 48L/24T

This course deals more rigorously and more mathematically with the topics included in ECO200Y1 and is intended primarily for students in certain Economics Specialist programs.

Prerequisite: (ECO101H1(70%), ECO102H1(70%))/
ECO100Y5(70%)/ (ECO101H5(70%), ECO102H5(70%))/
(MGEA02H3 (70%), MGEA06H3(70%));
MAT133Y1(63%)/ (MAT135H1(60%), MAT136H1(60%))/
MAT137Y1(55%)/ MAT157Y1(55%)

Exclusion: ECO200Y1, ECO204Y1, ECO200Y5,
ECO204Y5, ECO205Y5, ECO206Y5, MGEB01H3,
MGEB02H3, MGEC02H3

Breadth Requirements: Society and its Institutions (3)

ECO208Y1 - Macroeconomic Theory

Hours: 48L/24T

This course deals more rigorously and more mathematically with the topics included in ECO202Y1 and is intended primarily for students in certain Economics Specialist programs.

Prerequisite: (ECO101H1(70%), ECO102H1(70%))/
ECO100Y5(70%)/ (ECO101H5(70%), ECO102H5(70%))/
(MGEA02H3(70%), MGEA06H3 (70%));
MAT133Y1(63%)/ (MAT135H1(60%), MAT136H1(60%))/
MAT137Y1(55%)/ MAT157Y1(55%)

Exclusion: ECO202Y1, ECO209Y1, ECO202Y5,
ECO208Y5, ECO209Y5, MGEB05H3, MGEB06H3,
MGEC06H3

Breadth Requirements: Society and its Institutions (3)

ECO209Y1 - Macroeconomic Theory and Policy (for Commerce)

Hours: 48L/24T

Macroeconomic issues relevant for commerce students. Analytical tools are used to examine policy issues: Canadian government budgets, Bank of Canada monetary policy, exchange rate policy, foreign trade policy and government regulation of financial intermediaries. This

course is restricted to students in the Commerce programs.

Prerequisite: (ECO101H1(63%), ECO102H1(63%))/
ECO105Y1(80%); MAT133Y1/ (MAT135H1, MAT136H1)/
MAT137Y1/ MAT157Y1

Exclusion: ECO202Y1, ECO208Y1

Breadth Requirements: Society and its Institutions (3)

ECO210H1 - Mathematical Methods for Economic Theory

Hours: 24L/12T

An introduction to mathematical methods commonly used in economic theory. Topics include: multivariate calculus, concavity and convexity, unconstrained multivariate optimization, multivariate optimization subject to equality or inequality constraints and differential equations.

Prerequisite: (ECO101H1(63%), ECO102H1(63%))/
ECO105Y1(80%)/ ECO100Y5(67%)/ (ECO101H5(63%),
ECO102H5(63%))/ (MGEA02H3 (67%), MGEA06H3
(67%)); MAT133Y1(63%)/ (MAT135H1(60%),
MAT136H1(60%))/ MAT137Y1(55%)/ MAT157Y1(55%)

Exclusion: MAT235Y1, MAT237Y1

Recommended Preparation: ECO200Y1/ ECO204Y1/
ECO206Y1 is a recommended corequisite.

ECO220Y1 - Introduction to Data Analysis and Applied Econometrics

Hours: 48L/48T

Numerical and graphical data description; data collection and sampling; probability; sampling distributions; statistical inference; hypothesis testing and estimation; simple and multiple regression analysis (extensive coverage). Learn how to analyze data and how to correctly interpret and explain results. Use Excel to analyze a wide variety of data and replicate tables and figures in economics research papers.

Prerequisite: (ECO101H1(63%), ECO102H1(63%))/
ECO105Y1(80%)/ ECO100Y5(67%)/ (ECO101H5(63%),
ECO102H5(63%))/ (MGEA02H3(67%), MGEA06H3
(67%)); MAT133Y1/ (MAT135H1, MAT136H1)/
MAT137Y1/ MAT157Y1

Exclusion: GGR270H1, PSY201H1, PSY202H1,
SOC202H1, SOC252H1, STA220H1, STA221H1,
STA248H1, ECO220Y5, MGEB11H3, MGEB12H3

Breadth Requirements: Society and its Institutions (3),
The Physical and Mathematical Universes (5)

ECO225H1 - Big-Data Tools for Economists

Hours: 24L/12T

An introduction to the big-data tools—including Machine-Learning techniques—economists increasingly use in applied research. The course explores unstructured data sources such as text files, webpages, social media posts, satellite imagery, and weather data. It offers a practical introduction to creating datasets from these sources (e.g., web scrapping), linking data, and managing and visualizing them (e.g., geospatial visualization).

Prerequisite: ([ECO101H1](#)(63%), [ECO102H1](#)(63%))/ [ECO105Y1](#)(80%)/ [ECO100Y5](#)(67%)/ ([ECO101H5](#)(63%), [ECO102H5](#)(63%))/ ([MGEA02H3](#) (67%), [MGEA06H3](#) (67%)); [MAT133Y1](#)(63%)/ ([MAT135H1](#)(60%), [MAT136H1](#)(60%))/ [MAT137Y1](#)(55%)/ [MAT157Y1](#)(55%); [CSC108H1](#)/ [CSC110Y1](#)/ [CSC148H1](#)

Exclusion: [CSC311H1](#), [ECO250Y0](#) (Special Topics Abroad in Economics: Big Data Tools and Machine Learning for Economists) taken in Summer 2023, [ESC190H1](#), [JSC270H1](#), [STA314H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

ECO227Y1 - Foundations of Econometrics

Hours: 48L/24T

A rigorous introduction to probability and mathematical statistics intended for students in Economics Specialist programs. Probability and estimation theory, sampling distributions, hypotheses testing, multiple regression analysis. Students will learn the tools used in economics and finance to model and address randomness and uncertainty.

Prerequisite: ([ECO101H1](#)(70%), [ECO102H1](#)(70%))/ [ECO100Y5](#)(70%)/ ([ECO101H5](#)(70%), [ECO102H5](#)(70%))/ ([MGEA02H3](#)(70%), [MGEA06H3](#)(70%)); [MAT133Y1](#)(63%)/ ([MAT135H1](#)(60%), [MAT136H1](#)(60%))/ [MAT137Y1](#)(55%)/ [MAT157Y1](#)(55%)

Corequisite: Recommended: [MAT223H1](#)/ [MAT240H1](#), [MAT235Y1](#)/ [MAT237Y1](#)/ [ECO210H1](#)

Exclusion: [STA237H1](#), [STA238H1](#), [STA247H1](#), [STA248H1](#), [STA255H1](#), [STA257H1](#), [STA261H1](#), [ECO227Y5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

ECO231H1 - Economics of Global Trade

Previous Course Number: ECO230Y1

Hours: 24L/12T

This course is intended primarily for students in the International Relations program. This course offers an introduction to the economic causes and consequences of international trade in goods, services, labour, innovation and capital. Attention will be devoted to the economic impact of policies that affect these flows, such as protectionism and outsourcing.

Prerequisite: ([ECO101H1](#), [ECO102H1](#))/ [ECO105Y1](#)

Exclusion: [ECO230Y1](#), [ECO364H1](#), [ECO364H5](#)

Breadth Requirements: Society and its Institutions (3)

ECO232H1 - Global Macroeconomics and Policies

Previous Course Number: ECO230Y1

Hours: 24L/12T

This course is intended primarily for students in the International Relations program. The course serves as an introduction to some of the causes of differences in economic performance across countries and the impact of a variety of government policies, such as monetary and fiscal policy as well as exchange rate regimes, and how each of the three interact in response to changes in development, sovereign debt, monetary unions and financial crises.

Prerequisite: ([ECO101H1](#), [ECO102H1](#))/ [ECO105Y1](#)

Exclusion: [ECO230Y1](#), [ECO365H1](#), [ECO365H5](#)

Breadth Requirements: Society and its Institutions (3)

ECO250Y0 - Special Topics Abroad in Economics

Hours: 48L/24T

Special Topics in Economics offered in an international setting. Course content and destination may vary. For more information see the [Summer Abroad](#) website.

Prerequisite: ([ECO101H1](#)(63%), [ECO102H1](#)(63%))/ [ECO105Y1](#)(80%)/ [ECO100Y5](#)(67%)/ ([ECO101H5](#)(63%), [ECO102H5](#)(63%))/ ([MGEA02H3](#) (67%), [MGEA06H3](#) (67%)); [MAT133Y1](#)/ ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#). Further prerequisites (e.g. [CSC108H1](#)/ [CSC110Y1](#)/ [CSC148H1](#)) may be required and may vary. See [Summer Abroad](#) website for details.

Exclusion: [ECO250Y0](#) (Summer 2023) has an exclusion to [ECO225H1](#)

Breadth Requirements: Society and its Institutions (3)

ECO250Y1 - Special Topics in Economics

Hours: 48L/24T

Courses may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department.

Prerequisite: See the Department of Economics website for details.

ECO251H1 - Special Topics in Economics

Hours: 24L/12T

Courses may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department.

Prerequisite: See the Department of Economics website for details.

ECO252H1 - Special Topics in Economics

Hours: 24L/12T

Courses may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department.

Prerequisite: See the Department of Economics website for details.

ECO299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

ECO305H1 - Economics of Accounting

Hours: 24L/12T

The economic impact of accounting rules and practices for firms and financial contracts. Topics include: economic models of agency, economics of optimal accounting rules such as government regulation of corporate disclosure and the economic returns to financial reporting. No previous knowledge of accounting is required; the basic language of financial accounting will be covered.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Exclusion: Not open to students enrolled in Rotman Commerce programs.

Breadth Requirements: Society and its Institutions (3)

ECO306H1 - American Economic History

Hours: 24L/12T

A survey of American economic history from the ante-bellum period to the present. Potential topics include: the rapid growth of the American economy in the late 19th and early 20th century; causes of the onset of the Great Depression; the economic impact of slavery and its aftermath; health and demographic trends; and 20th century trends in inequality.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Breadth Requirements: Society and its Institutions (3)

ECO310H1 - Empirical Industrial Organization

Hours: 24L/12T

The quantitative analysis of firms' strategies in real-world industries, using tools from applied microeconomics and statistics. Topics include: studies of monopoly, oligopoly, imperfect competition, and the estimation of demand and cost functions that underpin these markets. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites, and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Breadth Requirements: Society and its Institutions (3)

ECO313H1 - Environmental Economics and Policies

Hours: 24L/12T

This course demonstrates how a rigorous application of microeconomic techniques can inform our responses to various environmental problems. Topics may include: air and water pollution and renewable resource management.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Exclusion: ECO313H5

Breadth Requirements: Society and its Institutions (3)

ECO314H1 - Energy and the Environment

Hours: 24L/12T

This course surveys important features of energy markets and related environmental challenges. One of the central objectives is to provide an understanding of the key economic tools needed to analyse these markets. A related objective is the development of a framework for understanding the public discourse on energy and the environment. Topics include: the hydrocarbon economy (oil, natural gas and coal), electricity markets, global warming and other externalities, renewable energy, conservation, carbon taxes and 'cap-and-trade'.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Breadth Requirements: Society and its Institutions (3)

ECO316H1 - Applied Game Theory

Hours: 24L/12T

Focuses on the core ideas and concepts of game theory and on applications of them in economics and other social sciences. Topics may include: oligopoly, electoral competition, the theory of public goods, voting theory, the free rider problem, repeated interaction, bargaining, evolutionary equilibrium, matching and auctions.

Note: This course cannot be taken as a substitute in programs that require ECO326H1.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1

Exclusion: ECO326H1, ECO326H5

Breadth Requirements: Society and its Institutions (3)

ECO317H1 - Concepts of Fairness in Economics

Hours: 24L/12T

How can we make collective decisions fairly? What does it mean to properly balance conflicting interests? How can we combine the well-being of individuals into a concept of societal well-being? We explore these and related ethical questions from the perspective of economic theory. A central tool is the axiomatic approach, which calls for decisions to be consistent, in precise senses, across related situations. Possible topics include: rationing problems, the Shapley value, fair division, discrimination, voting theory, foundations of utilitarianism and egalitarianism, measurement of inequality, population ethics, intergenerational equity, and concepts of equal opportunity.

Prerequisite: ECO200Y1(63%)/ ECO204Y1(63%)/ ECO206Y1

Exclusion: ECO351H1 (Special Topics in Economics: Principles of Fair Decisions) taken Fall 2021, Winter 2022, Fall 2022, and Winter 2023

Recommended Preparation: Familiarity and comfort with mathematical notation and formal definitions.

Breadth Requirements: Society and its Institutions (3)

ECO320H1 - Economic Analysis of Law

Hours: 24L/12T

The practical application of microeconomic theory to common legal problems: torts, contracts, property and crime, and the limitations of economic analysis. No previous familiarity with the law is assumed. (This is an economic analysis of legal issues, not a course in law).

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1

Exclusion: ECO320H5

Breadth Requirements: Society and its Institutions (3)

ECO321H1 - Canadian Economic History prior to 1850

Hours: 24L/12T

This course applies the tools of economics - theoretical and empirical - to study Canada's historical growth experiences. Topics include: the variation in well-being among Indigenous peoples (both pre and post contact), migration and indentured servitude, colonial money, child labour and education, and the rise of factories. The impact of colonial institutions on Canada's economic success is studied in a comparative context.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1
Exclusion: ECO322Y5
Breadth Requirements: Society and its Institutions (3)

ECO322H1 - Canadian Economic History, 1850-1960

Hours: 24L/12T

Canadian economic history between 1850 and 1960, with a focus on the debate over the ability of the market mechanism to optimize economic development. Topics covered include: tariff policies, Confederation, the transcontinental railroad, opening the West, the Great Depression, monetary policy and the Bank of Canada, regional growth and dominion-provincial relations.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1
Exclusion: ECO322Y5
Breadth Requirements: Society and its Institutions (3)

ECO324H1 - Economic Development

Hours: 24L/12T

This course critically analyzes issues related to economic development and the associated policy responses. Tools from micro and macroeconomic theory are employed, as well as the critical assessment of empirical evidence. Topics may include: education, health, credit markets, inequality, and the role of foreign aid.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)
Exclusion: ECO324H5
Breadth Requirements: Society and its Institutions (3)

ECO325H1 - Advanced Economic Theory - Macro

Hours: 24L/12T

A development of the microeconomic foundations of macroeconomic theory to expand students' analytic skills by constructing and solving macroeconomic models. Topics may include: dynamic choice, neoclassical growth theory, uncertainty and rational expectations, business cycles, as well as fiscal and monetary policy.

Prerequisite: ECO208Y1/ ECO202Y1(70%)/ ECO209Y1; ECO220Y1(70%)/ ECO227Y1/ (STA237H1(70%), STA238H1(70%))/ (STA247H1(70%), STA248H1(70%))/ (STA257H1, STA261H1)
Exclusion: ECO325H5

Recommended Preparation: MAT235Y1/ MAT237Y1/ ECO210H1
Breadth Requirements: Society and its Institutions (3)

ECO326H1 - Advanced Microeconomics - Game Theory

Hours: 24L/12T

Game theory and applications. Topics include: strategic and extensive games, with applications to economics.

Prerequisite: ECO200Y1(70%)/ ECO204Y1/ ECO206Y1; ECO220Y1(70%)/ ECO227Y1/ (STA237H1(70%), STA238H1(70%))/ (STA247H1(70%), STA248H1(70%))/ (STA257H1, STA261H1)
Exclusion: ECO316H1, ECO326H5
Recommended Preparation: MAT235Y1/ MAT237Y1/ ECO210H1
Breadth Requirements: Society and its Institutions (3)

ECO331H1 - Behavioural and Experimental Economics

Hours: 24L/12T

Ample empirical and experimental evidence suggests significant departures from classical assumptions of economic behaviour. For example, humans are neither always perfectly rational nor always self interested. This course describes systematic ways in which behaviour deviates from neoclassical assumptions, generating new, and hopefully more realistic behavioural assumptions that have broad empirical, theoretical and policy implications.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)
Breadth Requirements: Society and its Institutions (3)

ECO332H1 - Economics of the Family

Hours: 24L/24T

A use of microeconomics to study the behaviour of the family, including marriage, divorce, intra-family allocations, investment in children and gender roles.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)
Breadth Requirements: Society and its Institutions (3)

ECO333H1 - Urban Economics

Hours: 24L/12T

Spatial economic theory and urban public policy: firms and individuals in partial and general equilibrium, land development and land-use controls, urban transportation, efficiency and equity in spending and taxing.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1

Exclusion: ECO333H5

Breadth Requirements: Society and its Institutions (3)

ECO334H1 - The Political Economy of Media

Hours: 24L/12T

We develop tools to analyze voters and the role of information in democracies. Theories of voter information are evaluated using empirical literature on media its political economy. We explore the effects of information-technology innovation, evaluating how the empirical results square with the theory. We focus on empirical methods used to identify the effects of media—from newspapers, radio and television to the internet and social media—on voters. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Breadth Requirements: Society and its Institutions (3)

ECO336H1 - Public Economics

Hours: 24L/12T

Theory of taxation and public goods, and quantitative methods for program evaluation. Additional topics include: taxation and income distribution; environmental policy; and the political economy of government policy.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Exclusion: ECO336H5, ECO337H1

Breadth Requirements: Society and its Institutions (3)

ECO337H1 - Public Economics (for Commerce)

Hours: 24L/12T

An introduction to the economics of government similar to ECO336H1, but with greater focus on issues in business and financial economics. Additional topics include: business tax planning and corporate financial policy; taxation of saving and risk-taking; and government business enterprises.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Exclusion: ECO336H1, ECO336H5

Breadth Requirements: Society and its Institutions (3)

ECO338H1 - Economics of Careers

Hours: 24L/12T

The economic analysis of careers from the perspectives of both workers and employers. How do people decide what to study, what careers to pursue, and when to change jobs? How do these decisions interact with the structure of firms? The impact of specialization and the division of labour on the evolution of careers is considered, as are the role of cognitive and communication skills in the labour market.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Breadth Requirements: Society and its Institutions (3)

ECO339H1 - Labour Economics: Employment, Wages and Public Policy

Hours: 24L/12T

Using tools from microeconomic theory and statistics, this course introduces students to the study of labour markets, focusing on employment and wage determination, and the application of labour economics to public policy. Topics may include: labour supply, labour demand, estimating the impact of welfare programs, minimum wages, and other labour market interventions. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Exclusion: ECO343H5, ECO344H5

Breadth Requirements: Society and its Institutions (3)

ECO340H1 - Labour Economics: The Distribution of Earnings

Hours: 24L/12T

Using tools from microeconomic theory and statistics, this course studies the determinants of wages across labour markets. Topics include: the theory of compensating differentials, human capital, discrimination, immigration, unions, and alternative models of compensation. In addition, students are introduced to microeconomic models of unemployment. Throughout the course, there is an emphasis on the evaluation of empirical evidence. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Exclusion: ECO343H5, ECO344H5

Breadth Requirements: Society and its Institutions (3)

ECO341H1 - The Economic History of the 20th Century: Trade, Migration, Money and Finance before 1945

Hours: 24L/12T

Tailored to advanced students in Economics, Commerce, International Relations and History. The focus is on growth and fluctuations in Europe and North America between roughly 1870 and 1939, with a particular emphasis on international trade and payments, migration, investment, and monetary arrangements.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1/ (ECO230Y1/ (ECO231H1, ECO232H1), (POL208Y1/ POL208H1))

Exclusion: ECO303H5

Breadth Requirements: Society and its Institutions (3)

ECO342H1 - Twentieth Century Economic History: Institutions, Growth and Inequality

Hours: 24L/12T

Tailored to advanced students in Economics, Commerce, International Relations and History. The focus is on

institutions, growth and inequality in countries across the world.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1/ (ECO230Y1/ (ECO231H1, ECO232H1), (POL208Y1/ POL208H1))

Breadth Requirements: Society and its Institutions (3)

ECO349H1 - Money, Banking and Financial Markets

Hours: 24L/12T

This course studies the interaction of the monetary and banking sectors with financial markets and the broader economy. It builds especially on tools developed in intermediate macroeconomics, but also focuses on the institutional structure of the Canadian monetary sector, including the role and operation of the Bank of Canada.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO202Y1/ ECO208Y1/ ECO209Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Exclusion: ECO348H5/ ECO349H5

Breadth Requirements: Society and its Institutions (3)

ECO350Y1 - Special Topics in Economics

Hours: 48L/24T

Courses may be offered in one or more subjects each year.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1). Further prerequisites may be required and may vary from year to year, consult the Department of Economics website/current Timetable for more information.

Breadth Requirements: Society and its Institutions (3)

ECO351H1 - Special Topics in Economics

Hours: 24L/12T

Courses may be offered in one or more subjects each year.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1).

Further prerequisites may be required and may vary from year to year, consult the Department of Economics website/current Timetable for more information.

Breadth Requirements: Society and its Institutions (3)

ECO352H1 - Special Topics in Economics

Hours: 24L/12T

Courses may be offered in one or more subjects each year.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO202Y1/ ECO208Y1/ ECO209Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1). Further prerequisites may be required and may vary from year to year, consult the Department of Economics website/current Timetable for more information.

Breadth Requirements: Society and its Institutions (3)

ECO353H1 - Special Topics in Economics with Data Analytics

Hours: 24L/12T

Seminars or workshops in economics with a data analytics component may be offered in one or more topics each year. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1). Further prerequisites (e.g. ECO225H1/ GGR272H1) may be required and may vary from year to year, consult the Department of Economics website/current Timetable for more information.

Breadth Requirements: Society and its Institutions (3)

ECO354H1 - Special Topics in Economics with Data Analytics

Hours: 24L/12T

Seminars or workshops in economics with a data analytics component may be offered in one or more topics each year. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO202Y1/ ECO208Y1/ ECO209Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1). Further prerequisites (e.g. ECO225H1/ GGR272H1) may be required and may vary from year to year, consult the Department of Economics website/current Timetable for more information.

Breadth Requirements: Society and its Institutions (3)

ECO356H1 - Special Topics in Financial Economics

Hours: 24L/12T

Courses may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department.

Prerequisite: See the Department of Economics website for details.

Breadth Requirements: Society and its Institutions (3)

ECO358H1 - Financial Economics I

Hours: 24L/12T

An introduction to economics of financial assets and financial markets. Topics: inter-temporal choice, expected utility theory, security valuation, selected asset pricing models, market efficiency, and the term structure of interest rates - essential materials for an understanding of the role and operation of financial markets.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Exclusion: ACT349H1, ECO358H5, MGT231H5, RSM332H1

Breadth Requirements: Society and its Institutions (3)

ECO359H1 - Financial Economics II: Corporate Finance

Hours: 24L/12T

Agency and incomplete information problems inherent in financial transactions; the role of contractual arrangements in overcoming them. Financial constraints on investment decisions of firms; the financial system in economic growth; the legal system in the functioning of financial markets. A look at theoretical and empirical literature covering these issues.

Prerequisite: ECO358H1

Exclusion: ACT349H1, ECO359H5, MGT232H5, RSM333H1

Breadth Requirements: Society and its Institutions (3)

ECO362H1 - Economic Growth

Hours: 24L/12T

The course considers a broad range of issues that underlie economic growth, including technical progress and the accumulation of human and physical capital. Beyond these factors, the course also investigates the efficiency with which capital is used, the role of foreign trade, and the possible roles of institutions and geography.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO202Y1/ ECO208Y1/ ECO209Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Exclusion: ECO362H5

Breadth Requirements: Society and its Institutions (3)

ECO364H1 - International Trade Theory

Hours: 24L/12T

An examination of the causes and consequences of international trade. The first half develops traditional models of comparative advantage. The second half examines more recent theoretical and empirical work on trade & wages, the political economy of trade, outsourcing, and firm heterogeneity.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Exclusion: ECO230Y1, ECO231H1, ECO364H5

Breadth Requirements: Society and its Institutions (3)

ECO365H1 - International Monetary Economics

Hours: 24L/12T

Introduction to open economy macroeconomics and international finance. The core objective of the course is to develop macroeconomic models of open economies that can be applied towards gaining an understanding of recent events such as US deficits, financial crises, China's exchange rate policy and the Euro.

Prerequisite: ECO202Y1/ ECO208Y1/ ECO209Y1

Exclusion: ECO230Y1, ECO232H1, ECO365H5

Breadth Requirements: Society and its Institutions (3)

ECO367H1 - The Economics of Inequality

Hours: 24L/12T

This course critically analyzes the causes and recent dynamics of economic inequality both between countries as well as within a particular country, with a particular emphasis on the role of public policy. While theoretical models are employed, there is a focus on the critical assessment of empirical evidence. Topics may include the roles of traditional market forces (e.g., globalisation, technological change), institutions (e.g., minimum wage, unions) as well as race and gender. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Breadth Requirements: Society and its Institutions (3)

ECO368H1 - Economics of Conflict

Hours: 24L/12T

This course explores the links between violent conflict and socioeconomic development. It focuses on micro-level processes leading to conflict, and how conflict and political violence affect people's lives at the household and community levels. It also examines how these processes are linked to wider political and economic issues including governance and the role of institutions. Tools from economic theory are applied alongside country-specific and cross-country empirical evidence.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1). Note: Students with (ECO101H1(63%), ECO102H1(63%))/ECO105Y1(80%), plus a full-year of quantitative methods/statistics (e.g., POL222H1, POL232H1), and who are enrolled in the International Relations or Peace, Conflict and Justice Major or Specialist programs may take this course with Permission of the Instructor.

Breadth Requirements: Society and its Institutions (3)

ECO369H1 - Health Economics

Hours: 24L/12T

The provision of health care provides many special problems of informational asymmetry, regulation, insurance and redistribution. A consideration of the demand and supply side problems. Alternative reform proposals for health care are explored.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)
Breadth Requirements: Society and its Institutions (3)

ECO372H1 - Data Analysis and Applied Econometrics in Practice

Hours: 24L/12T

How multiple regression can be used to answer causal questions. Implications of, and how to interpret different model specifications and identification strategies. Students will read, critically evaluate and replicate existing research, and conduct their own original analyses. Statistical software STATA or R will be used.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)
Breadth Requirements: Society and its Institutions (3)

ECO374H1 - Forecasting and Time Series Econometrics

Hours: 24L/12T

Introduction to time series econometrics and forecasting. Statistical foundations and economic applications of stochastic processes including ARMA, neural networks with machine learning, VAR, VEC, and volatility models. Students gain practical experience working with economic and financial data, making use of statistical software.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1(70%)/ ECO227Y1/ (STA237H1(70%), STA238H1(70%))/ (STA247H1(70%), STA248H1(70%))/ (STA257H1, STA261H1)
Exclusion: STA457H1
Recommended Preparation: MAT221H1/ MAT223H1/ MAT240H1
Breadth Requirements: Society and its Institutions (3)

ECO375H1 - Applied Econometrics I

Hours: 24L/12T

Introduction to econometrics. Statistical foundations and the interpretation of multiple regression models, with an

emphasis on cross-sectional data. Application of regressions to a wide variety of economic questions and data sources, including the use of statistical software. Problems in the identification of causality, and an introduction to methods of addressing common statistical issues.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1(70%)/ ECO227Y1/ (STA237H1(70%), STA238H1(70%))/ (STA247H1(70%), STA248H1(70%))/ (STA257H1, STA261H1)
Exclusion: ECO375H5
Recommended Preparation: MAT221H1/ MAT223H1/ MAT240H1
Breadth Requirements: Society and its Institutions (3)

ECO380H1 - Markets, Competition, and Strategy

Hours: 24L/12T

This course in applied microeconomics is concerned with the functioning of markets and the behaviour of firms within these markets. The focus is on strategic relationships between organizations, including competitive relationships among firms in the same market and cooperative relationships between a firm and its suppliers and distributors. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)
Exclusion: ECO312H5
Breadth Requirements: Society and its Institutions (3)

ECO381H1 - Personnel Economics

Hours: 24L/12T

An examination of selected material on compensation and incentives in organizations. Topics include: recruitment and hiring, training, turnover, downsizing, motivating workers, teams, allocating authority and task assignment.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)
Exclusion: ECO381H5
Breadth Requirements: Society and its Institutions (3)

ECO398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

ECO398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

ECO399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

ECO401H1 - Topics in Economic Policy

Hours: 24L/12T

This course covers basic issues in the theoretical and empirical evaluation of public policy. Sample topics include: income redistribution through taxation and the provision of social insurance and public goods, the mitigation of externalities, and welfare analysis in behavioural models. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Breadth Requirements: Society and its Institutions (3)

ECO402H1 - Topics in Health Economics

Hours: 24L/12T

This course explores a variety of topics in health economics, providing students with an overview of current and historical institutional characteristics of the market for, and public policy towards, health care. Students will apply theoretical and empirical tools to current domestic and international issues in health policy. No previous background in health economics is required.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Breadth Requirements: Society and its Institutions (3)

ECO403H1 - Topics in Development Economics and Policy

Hours: 24L/12T

This course covers a variety of topics pertaining to economic development and associated policies. Depending on the course instructor, the focus may be on theories and policies related to poverty alleviation, human capital formation, financial markets, international trade, governance or economic growth. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Breadth Requirements: Society and its Institutions (3)

ECO404H1 - Topics in Managerial Economics

Hours: 24L/12T

Applies quantitative economic methods to real world business-oriented cases. Sample topics include: new product design, decision making under uncertainty, market segmentation and price discrimination, inventory analysis, game theoretic analysis of price wars, financial portfolio design, and optimal pricing. Involves substantial modeling in Excel, regression analysis, optimization methods, and financial reports. Note: hands-on analysis of

real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO200Y1(63%)/ ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Breadth Requirements: Society and its Institutions (3)

ECO406H1 - Developmental Macroeconomics

Hours: 24L/12T

This course studies a growth model applicable to both middle-income developing countries and resource-rich developed countries. Special attention is paid to causes of cyclical currency overvaluation, particularly Dutch disease and excessive capital inflows.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Breadth Requirements: Society and its Institutions (3)

ECO407H1 - Competing Views in Macroeconomic Theory and Policy

Hours: 24L/24T

Provides students with a systematic analysis of competing perspectives on key areas of macroeconomic theory and policy. Special attention paid to competing views regarding key fiscal, monetary, and trade policy issues as applied to Canada.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Breadth Requirements: Society and its Institutions (3)

ECO409H1 - Topics in Money, Banking, and Finance

Hours: 24L/12T

This course examines the foundations of money and financial institutions using tools mastered in micro and

macroeconomics. The goal is a set of principles valid for the analysis of monetary policy and institutional regulation in a variety of real world settings.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Breadth Requirements: Society and its Institutions (3)

ECO410H1 - Mergers and Competition Policy

Hours: 24L/24T

A combined theoretical, empirical and policy approach to mergers amongst competitors (horizontal mergers). Uses microeconomic models including game theory and econometrics. Delves into recent/current matters assessed by antitrust authorities domestically and/or internationally with applications to specific industries.

Prerequisite: ECO372H1/ ECO374H1/ ECO375H1, at least 1.0 credit in ECO at the 300+ level.

Breadth Requirements: Society and its Institutions (3)

ECO414H1 - Energy and Regulation

Hours: 24L/12T

This course provides a general treatment of the economics of energy markets and the use of regulation in addressing environmental and other issues arising in these markets. A central theme is the search for an appropriate balance between market forces and regulatory/government intervention. Familiarity with tools of microeconomics and statistics/econometrics is essential. Topics include: oil, natural gas, coal and electricity markets, global warming and other externalities, networks, feed-in-tariffs, carbon taxes, 'cap-and-trade' and incentive regulation.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Breadth Requirements: Society and its Institutions (3)

ECO417H1 - Economic Development Policy: Community Engaged Learning

Hours: 12L/12T/12P

An examination of the causes and consequence of poverty in developing countries with a microeconomic

focus, and how it relates it to poverty in the developed world, using a 30-hour service placement at a community organization. Importance of community and context specific factors in policy implementation; learn how local organizations have responded. Use of reflection assignments, papers, group work and class discussions to relate to course concepts. Topics include: poverty traps, health, education, and credit. An application to the instructor is necessary. Not eligible for CR/NCR option.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO202Y1/ ECO208Y1/ ECO209Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Breadth Requirements: Society and its Institutions (3)

ECO418H1 - Empirical Applications of Economic Theory

Hours: 24L/12T

Topics class in applied econometrics, emphasizing empirical industrial organization. Emphasis on a balanced treatment of theory and econometric techniques used in empirical research in industrial organization (the study of firms and markets). How firms behave, how market equilibriums arise and how economic policies are used to affect market equilibriums. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO372H1(73%)/ ECO374H1/ ECO375H1

Breadth Requirements: Society and its Institutions (3)

ECO419H1 - International Macroeconomics

Hours: 24L/12T

This course studies the causes and consequences of international borrowing and lending and exchange rate fluctuations. We will discuss key empirical facts about these phenomena, develop economic models to understand the forces that drive them, and apply the models to gain insights about a variety of historical contexts like China's rapid economic development and the recent sovereign debt crises in the Eurozone periphery.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO202Y1/ ECO208Y1/ ECO209Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Breadth Requirements: Society and its Institutions (3)

ECO420Y1 - Special Topics in Economics

Hours: 48S

Seminars or workshops may be offered in one or more subjects each year.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level. Further prerequisites (e.g. ECO225H1) may be required and may vary from year to year, consult the Department of Economics website/current Timetable for more information.

Breadth Requirements: Society and its Institutions (3)

ECO421H1 - Special Topics in Economics

Hours: 36S

Seminars or workshops may be offered in one or more subjects each year.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level. Further prerequisites may be required and may vary from year to year, consult the Department of Economics website/current Timetable for more information.

Breadth Requirements: Society and its Institutions (3)

ECO422H1 - Special Topics in Economics

Hours: 36S

Seminars or workshops may be offered in one or more subjects each year.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level. Further prerequisites may be required and may vary from year to year, consult the Department of Economics website/current Timetable for more information.

Breadth Requirements: Society and its Institutions (3)

ECO423H1 - Economics and Biosocial Data

Hours: 24L/12T

This course introduces and critically assesses economic research that uses genetic, neuroscientific, and other biosocial data. We will address questions such as: what are the effects of brain neurochemistry on economic decision-making? What role do nature and nurture play in economic behaviour and outcomes? What can we learn from geno-economics? What are the policy implications (or lack thereof) of related findings? No previous background in biology or genetics is required.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Exclusion: ECO422H1 (Special Topics in Economics: Biology, Genetics and Economics), offered in Winter 2017.

Recommended Preparation: ECO372H1/ ECO374H1/ ECO375H1

Breadth Requirements: Society and its Institutions (3)

ECO424H1 - Topics in Experimental Economics

Hours: 24L/12T

Experimental Economics is a relatively new and very exciting field in economics. While most data used in economics is observational, experimentalists use controlled environments to study various economic issues: from individual decision making, to interaction in games and markets, to asset markets and even macroeconomic issues. In this “hands on” course, students read the background literature in a few areas of current academic research, design and conduct human-subject experiments, ultimately submitting a paper where they draw conclusion from their analysis of real data.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Exclusion: ECO421H1 (Special Topics in Economics: Experimental Economics), taken Fall 2020 and Fall 2022.

Recommended Preparation: ECO316H1/ ECO326H1

Breadth Requirements: Society and its Institutions (3)

ECO425H1 - Business Cycles

Hours: 24L/12T

This course builds on material covered in ECO208Y1. Students will learn how to use business cycle models to better understand key empirical features of the macroeconomy. Topics covered include: the financial crisis, monetary policy, fiscal policy, theories of unemployment, and the effects of innovation on economic fluctuations, the Great Depression and the Financial Crisis.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Corequisite: ECO374H1/ ECO375H1

Breadth Requirements: Society and its Institutions (3)

ECO426H1 - Market Design

Hours: 24L/12T

This course presents the theory and practice of market design, including matching markets and auctions. Sample topics include: school choice, kidney exchange, spectrum auctions, and keyword auctions.

Prerequisite: ECO316H1(60%)/ ECO326H1

Breadth Requirements: Society and its Institutions (3)

ECO427H1 - Economics of Information

Previous Course Number: ECO421H1

Hours: 24L/12T

This course examines the role and the use of information in strategic situations. The class will expand on the material covered in game theory classes and illustrate it with applications. Topics include: communication, signalling, building reputations, adverse selection, etc.

Prerequisite: ECO316H1(60%)/ ECO326H1

Exclusion: ECO421H1 (Special Topics in Economics: Economics of Information), offered in Winter 2018 and Winter 2020.

Breadth Requirements: Society and its Institutions (3)

ECO428H1 - Classical Economic Thought

Hours: 24L/12T

An examination of the price, distribution, and growth theories of major economic thinkers before 1870, from pre-classical contributions by Aristotle, Mercantilists, and

Physiocrats to the classical authors Adam Smith, David Ricardo, T.R. Malthus, and Karl Marx.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO202Y1/ ECO208Y1/ ECO209Y1

Exclusion: ECO322Y5

Breadth Requirements: Society and its Institutions (3)

ECO429H1 - Economic Thought after 1870

Hours: 24L/12T

Economic analysis between 1870 and 1960, from the foundations of microeconomics by the Marginal Utility theorists of the 1870s (Jevons, Menger, and Walras), Alfred Marshall in the 1890s, and the capital theorists Bohm-Bawerk and Fisher in the early 1900s, to the Keynesian revolution in macroeconomics in the 1930s and Friedman's counter-revolution in the 1950s.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1

Exclusion: ECO322Y5

Breadth Requirements: Society and its Institutions (3)

ECO430Y1 - Reading Course or Thesis

Intended for advanced Specialist students who have exhausted course offerings in a particular area. Students may apply by submitting an application detailing their proposed topic, consult Timetable for more information. The course is open only when a faculty member is available and willing to supervise. Applications will be jointly reviewed by the faculty member and Associate Chair, Undergraduate Studies. Not eligible for CR/NCR option.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Breadth Requirements: Society and its Institutions (3)

ECO431H1 - Reading Course or Thesis

Intended for advanced Specialist students who have exhausted course offerings in a particular area. Students may apply by submitting an application detailing their proposed topic, consult Timetable for more information. The course is open only when a faculty member is available and willing to supervise. Applications will be jointly reviewed by the faculty member and Associate Chair, Undergraduate Studies. Not eligible for CR/NCR option.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Breadth Requirements: Society and its Institutions (3)

ECO434H1 - Topics in Political Economy

Hours: 24L/12T

This course surveys recent advances in political economy, emphasizing the critical evaluation of empirical evidence pertaining to political economic theories. Topics vary by year, but may include: voters and electoral competition, and the political economy of media and political agency.

Prerequisite: ECO316H1/ ECO326H1; ECO374H1/ ECO375H1

Breadth Requirements: Society and its Institutions (3)

ECO435H1 - The Economics of Modern China

Hours: 24L/12T

A focus on post-1949 Chinese economy, and the PRCs economic legacy. Economic development during the Maoist period, particularly post-1979 reforms. China's experience is compared to Eastern Europe's and the role of China in the rapidly growing East Asian economy. This is a limited enrolment seminar requiring extensive reading.

Prerequisite: ECO200Y1(70%)/ ECO204Y1(70%)/ ECO206Y1(70%); ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Breadth Requirements: Society and its Institutions (3)

ECO437H1 - Quantitative Macroeconomics

Hours: 24L/12T

In order to capture the complexity of economic behaviour and interactions, especially with a significant time dimension, modern models of the macroeconomy make considerable use of computer simulation. This course teaches students both how to develop the economic models, and how to solve and work with them computationally.

Prerequisite: ECO325H1

Breadth Requirements: Society and its Institutions (3)

ECO438H1 - Topics in Behavioural Economics

Previous Course Number: ECO422H1

Hours: 24L/12T

Behavioural Economics is a relatively new field that incorporates insights gained from psychological, experimental and neuroscientific studies. Research methods adapted from behavioural economics are now being employed in virtually every field in economics. The course will cover the main themes in behavioural economics: individual choices under risk and uncertainty, reference-dependent choices, intertemporal preferences, other-regarding preferences, bounded rationality in individual and interactive decision-making, and the measurement of rationality and recovery of preferences.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Exclusion: ECO422H1 (Special Topics in Economics: Topics in Behavioural Economics), offered in Winter 2018, Winter 2019, and Winter 2020.

Breadth Requirements: Society and its Institutions (3)

ECO439H1 - Empirical Methods in Microeconomics

Hours: 24L/12T

This course studies the methods used in modern program evaluation and micro-econometrics to identify causal effects in the presence of potentially unobserved confounding factors. Covers a range of methods and designs, both experimental and quasi-experimental. There is a heavy emphasis on the application of these methods to a broad range of economic questions. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: (ECO372H1(70%)/ ECO374H1(70%)/ ECO375H1(60%)) OR (ECO200Y1(80%)/ ECO204Y1(80%)/ ECO206Y1(80%), (ECO220Y1(80%)/ ECO227Y1(80%))

Breadth Requirements: Society and its Institutions (3)

ECO446H1 - Advanced Public Economics

Hours: 24L/12T

Advanced topics in public economics and economic analysis of Canadian public policy. Through a mix of lectures and independent research, students will acquire theoretical and empirical tools for public policy analysis. Topics may include: income inequality and redistribution; fiscal federalism; taxation of corporate profits; and policies to deal with public goods and externalities. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Exclusion: ECO336Y1

Recommended Preparation: ECO372H1/ ECO374H1/ ECO375H1 (familiarity with STATA)

Breadth Requirements: Society and its Institutions (3)

ECO451H1 - Macroeconomic Growth

Hours: 24L/12T

Studies current empirical evidence, and corresponding theoretical models to explain and understand macroeconomic growth, and its varied experience across countries. Coverage and depth of treatment go beyond ECO362H1. Students may benefit from, but need not have taken ECO362H1.

Prerequisite: ECO325H1(60%)

Breadth Requirements: Society and its Institutions (3)

ECO456H1 - Special Topics in Financial Economics

Hours: 24L/12T

Courses may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department.

Prerequisite: See the Department of Economics website for details.

Breadth Requirements: Society and its Institutions (3)

ECO459H1 - International Trade Regulation

Hours: 24L

The theory and political economy of international trade, with examination of specific trade institutions: Bretton Woods, WTO, NAFTA, tariff administration, most-favoured nation treatment, antidumping regulation, subsidies and countervailing duties, agriculture, trade in services, trade-related intellectual property, trade and environment, trade and developing countries.

Prerequisite: ECO364H1, ECO365H1, permission of the instructor

Breadth Requirements: Society and its Institutions (3)

ECO461H1 - The Economics of Financial Risk Management

Hours: 24L/12T

This course is intended primarily for students in the Financial Economics specialist program and is not open to students in the BCom program. The role of risk management in both private and public sectors, a discussion of why firms and government should hedge financial risks; individual and social gains of financial risk management; identification and quantification of financial risks (including Value-at-Risk measures); how derivative securities can be used for financial risk management.

Prerequisite: ECO358H1(70%)

Exclusion: ACT349H1, RSM435H1, ECO460H5, ECO461H5

Breadth Requirements: Society and its Institutions (3)

ECO462H1 - Financial Econometrics

Hours: 24L/12T

This course is intended primarily for students in the Financial Economics specialist program. An introduction to the econometrics used in empirical finance, with an emphasis on estimation and inference using computer based applications. Topics will include: parametric and nonparametric models of volatility, evaluation of asset pricing theories, and models for risk management and transactions data.

Prerequisite: ECO358H1(70%); ECO375H1(70%)/ECO375H5(70%)

Breadth Requirements: Society and its Institutions (3)

ECO464H1 - Empirical Financial Economics

Hours: 24L/12T

The course develops the tools used in empirical research in financial economics. Coverage may include: discrete choice models, duration models, instrumental variables, differences-in-differences, regression discontinuity, propensity score estimators, sample selection models and cumulative abnormal return calculation. Topics are drawn from: ownership structure, mergers and acquisitions, capital structure, payout policy, CEOs' effect on the firm, executive compensation, insider trading, shareholder activism, and bank financing. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO358H1(70%)/ RSM332H1(70%); ECO374H1(70%)/ ECO375H1(70%)/ ECO375H5(70%)/ ECO327Y5(70%)

Recommended Preparation: ECO359H1

Breadth Requirements: Society and its Institutions (3)

ECO465H1 - International Finance

Hours: 24L/12T

An advanced course that addresses topics in international finance and macroeconomics. Potential topics include: foreign exchange market; exchange rate determination; empirical models of exchange rates; international financial markets and uncertainty; international CAPM and home bias; sovereign debt; optimal capital controls.

Prerequisite: One of the following: ECO365H1(80%)/(ECO325H1(60%), ECO374H1(60%))/(ECO325H1(60%), ECO375H1(60%))

Breadth Requirements: Society and its Institutions (3)

ECO466H1 - Empirical Macroeconomics and Policy

Hours: 24L/12T

Building on ECO325H1, ECO374H1 and ECO375H1, students increase their data literacy and learn modelling techniques to address policy issues. The course covers monetary policy conduct, central bank use of general equilibrium models, and basic techniques for predicting key macroeconomic variables. The class is divided into groups making regular presentations on current global and domestic issues, the economic outlook, and how the Bank of Canada should adjust monetary policy in the short

run. At the end of the course, traditionally a group is chosen to compete in the Bank of Canada Governor's Challenge. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO208Y1(70%)/ ECO209Y1(70%)/ ECO202Y1(75%)/ ECO325H1(70%), ECO374H1(70%)/ ECO375H1(70%)

Exclusion: ECO466H5

Breadth Requirements: Society and its Institutions (3)

ECO475H1 - Applied Econometrics II

Previous Course Number: ECO376H1

Hours: 24L/12T

A research-oriented course continuing from ECO375H. The regression model is extended in several possible directions: time series analysis; panel data techniques; instrumental variables; simultaneous equations; limited dependent variables. Students will complete a major empirical term paper, applying the tools of econometrics to a topic chosen by the student.

Prerequisite: ECO375H1(70%)/ ECO374H1(80%),

NOTE: STA302H1 is not accepted preparation.

Exclusion: ECO475H5

Breadth Requirements: Society and its Institutions (3)

ECO480H1 - Special Topics in Economics with Data Analytics

Hours: 24L/12T

Seminars or workshops in economics with a data analytics component may be offered in one or more topics each year. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level. Further prerequisites (e.g. ECO225H1/ GGR272H1) may be required and may vary from year to year, consult the Department of Economics website/current Timetable for more information.

Breadth Requirements: Society and its Institutions (3)

ECO481H1 - Special Topics in Economics with Data Analytics

Hours: 24L/12T

Seminars or workshops in economics with a data analytics component may be offered in one or more topics each year. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level. Further prerequisites (e.g. ECO225H1/ GGR272H1) may be required and may vary from year to year, consult the Department of Economics website/current Timetable for more information.

Breadth Requirements: Society and its Institutions (3)

ECO482H1 - Machine Learning Applications in Macroeconomic Finance

Hours: 24L/12T

This course introduces students to machine learning concepts and techniques, focusing on applications in macroeconomic finance. In the first part we review supervised and unsupervised machine-learning methods. In the second part, we focus on various questions and topics in macro-finance where the use of machine learning is increasingly common. Hands-on use of these techniques to solve economic problems in macro-finance will prepare students for more advanced machine learning courses.

Prerequisite: CSC108H1/ CSC110Y1/ CSC148H1, ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Exclusion: CSC311H1, STA314H1, ECO481H1 (*Special Topics in Economics with Data Analytics: Macroeconomic Finance with Machine Learning Applications*) taken in Fall 2022 or Winter 2023.

Breadth Requirements: The Physical and Mathematical Universes (5)

ECO483H1 - Health and Economic Inequality

Hours: 24L/12T

This course provides an interactive overview of the key themes in health and economic inequality, paying particular attention to the bidirectional causal relationship: poor health can lead to poor economic outcomes, while economic insecurity can have serious health implications. Focusing on the current empirical literature and employing a hands-on approach to economic and health data, we investigate social and economic determinants such as income, geography, family, health care, race and gender. Note: hands-on analysis of real-world data using computer programs is a course requirement. The course is open to all students who meet the prerequisites, and necessary support for applicable software is provided.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1, ECO202Y1/ ECO208Y1/ ECO209Y1, ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1), at least 1.0 credit in ECO at the 300+ level.

Exclusion: ECO481H1 (*Special Topics in Economics with Data Analytics: Health and Economic Inequality*) taken in Fall 2023.

Breadth Requirements: Society and its Institutions (3)

ECO499H1 - Honours Essay in Applied Microeconomics

Hours: 24L/12T

Students will complete an original research paper on a topic of their choosing. Topic must be microeconomic and applied, meaning all papers will involve data and quantitative (regression) analysis.

Prerequisite: ECO200Y1/ ECO204Y1/ ECO206Y1; ECO202Y1/ ECO208Y1/ ECO209Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1); ECO372H1/ ECO374H1/ ECO375H1; an overall average of 73% across all ECO courses taken. Students will need to submit a supplemental application that briefly describes the topic of interest for the original research paper. The application form will be noted on the Timetable.

Recommended Preparation: ECO374H1/ ECO375H1 and ECO372H1

Breadth Requirements: Society and its Institutions (3)

English

Faculty List

University Professors Emeriti

J.E. Chamberlin, PhD, FRSC (N)
 R. Frank, MA, PhD, FRSC (U)
 L.A. Hutcheon, MA, PhD, FRSC (N)
 M. Millgate, MA, PhD, FRSC

Professors Emeriti

T.H. Adamowski, MA, PhD
 F.J. Asals, MA, PhD (N)
 J.D. Baird, MA, PhD (V)
 C.R. Blake, MA, PhD (U) (Obit)
 W.F. Blissett, MA, PhD, FRSC (U)
 R.M. Brown, MA, PhD (University of Toronto Scarborough)
 E. Cameron, MA, PhD (U)
 D.D.C. Chambers, MA, PhD (T)
 E. Cook, MA, PhD, FRSC (V)
 B. Corman, AM, PhD (T)
 M. Cuddy-Keane, MA, PhD (University of Toronto Scarborough)
 A.H. de Quehen, PhD (U)
 E.W. Domville, PhD (T)
 J.D. Duffy, MA, PhD (I) (V)
 J. Dutka, MA, PhD (University of Toronto Mississauga) (Obit)
 D.L. Esch, MA, PhD (V)
 D.I. Galbraith, MA, PhD (V)
 M. Garson, MA, PhD (University of Toronto Mississauga)
 W.H. Halewood, MA, PhD (U)
 G.A. Hamel, MA, PhD (N) (Obit)
 E.R. Harvey, M Phil, PhD
 B.S. Hayne, AM, PhD (SM)
 A. diP. Healey, MA, PhD (U)
 H.J. Jackson, MA, PhD
 A.F. Johnston, MA, PhD, LL D, FRSC (V)
 D.N. Klausner, PhD (U)
 N. ten Kortenaar, MA, PhD (University of Toronto Scarborough)
 J.C. Kuhn, MA, PhD (SM)
 A.C. Lancashire, AM, PhD, FRSC (U)
 D.I. Lancashire, MA, PhD, FRSC (N)
 A.M. Leggatt, MA, PhD, FRSC (U)
 J.L. Levenson, MA, PhD, FRSC (T)
 N.R. Lindheim, MA, PhD
 G. Matteo, MA, PhD (SM)
 J.L. Matus, MA, PhD, FRSC (U)
 R.R. McLeod, MA, PhD (University of Toronto Mississauga)
 S. Neuman, PhD, FRSC
 M. Nyquist, MA, PhD (N)
 R.B. Parker, MA, PhD (T)
 M. Redekop, MA, PhD (V)

J.H. Reibetanz, AM, PhD (V)
 J.M. Reibetanz, MA, PhD (T) (Obit)
 A. Saddlemeyer, MA, PhD, D Litt, LL D, FRSC (V)
 P.D. Seary, MA, D Phil (N)
 W.D. Shaw, AM, PhD, FRSC (V)
 M.J. Sidnell, MA, PhD (T)
 S.Z. Solecki, MA, PhD (U)
 R. Sullivan, MA, PhD, FRSC
 L. Thomson, MA, PhD (University of Toronto Mississauga)
 D. Townsend, MA, PhD (U)
 C. Visser, B Litt, PhD (U)
 G.T. Warkentin, MA, PhD (V) (FRSC)
 F.W. Watt, MA, B Litt, PhD (U)

Associate Professors Emeriti

G. Fenwick, MA, PhD (T)
 J.M. Heath, MA, PhD (V)
 G. Henderson, MA, PhD
 M.J. Levene, MA, PhD (University of Toronto Mississauga)
 V. Li, MA, PhD
 J.J. O'Connor, MA, PhD (SM)
 J.W.O. Patrick, MA, PhD (V)
 E.P. Vicari, MA, PhD (University of Toronto Scarborough)
 M. Woodland, MA, PhD

Professor and Chair of the Department

N. Morgenstern, MA, PhD

Associate Professor and Associate Chair

A.E. Hernandez, MA, PhD

University Professors

T. Keymer, MA, PhD, FRSC

Professors

A. Ackerman, MA, PhD (U)
 A.J. Bewell, MA, PhD, FRSC (U)
 R. Boyagoda, MA, PhD (SM), Vice-Dean, Undergraduate
 G.E. Clarke, MA, PhD (U)
 M. Cobb, MA, PhD (U)
 P.B. Downes, MA, PhD (T)
 A. Esterhammer, PhD, FRSC (V) (Principal of Victoria College)
 A. Gillespie, MA, D Phil (Vice-President & Principal, University of Toronto Mississauga)
 M. Goldman, MA, PhD (University of Toronto Scarborough)
 R. Greene, D Phil (University of Toronto Mississauga)
 A. Jaffe, PhD
 S. Kambourelli, MA, PhD, FRSC (U)
 K.R. Larson, M Phil, PhD (Vice-Dean, Teaching, Learning and Undergraduate Programs, University of Toronto Scarborough)
 G.M. Leonard, MA, PhD (University of Toronto Scarborough)
 L. Magnusson, MA, PhD, FRSC (V)

R. McGill, M Phil, PhD
 A. Most, MA, PhD
 N. Mount, MA, PhD (T)
 C.E. Percy, MA, D Phil (N)
 J. Rogers, MA, PhD
 S. Salih, MA, D Phil
 C. Schmitt, MA, PhD
 D. Seidler, MA, PhD
 S. Stern, JD, PhD (U)
 P.A. Stevens, MA, PhD, FRSC (T)
 R. R. Trilling, MA, PhD (January 2024)
 C. Warley, MA, PhD
 K. Weisman, MA, PhD
 D.E. White, MA, PhD (University of Toronto
 Mississauga)
 I. Williams, MA, PhD
 M. Xie, PhD

Associate Professors

L. Blake, M Phil, MA, PhD (University of Toronto
 Mississauga)
 C. Bolus-Reichert, MA, PhD (University of Toronto
 Scarborough)
 A. Charise, MA, PhD (University of Toronto
 Scarborough)
 T. Dancer, MA, PhD
 S.E. Dickie, MA, PhD
 N. Dolan, MA, PhD (University of Toronto
 Scarborough)
 A. DuBois, PhD (University of Toronto
 Scarborough)
 K. Gaston, MA, PhD (University of Toronto
 Scarborough)
 M. Gniadek, MA, PhD (University of Toronto
 Mississauga)
 A. Hammond, MA, PhD
 J. Hansen, MA, PhD (January 2024)
 C. Hill, MA, PhD (University of Toronto
 Mississauga)
 S. Lamb, MA, PhD (University of Toronto
 Scarborough)
 H. Li, PhD
 A. Maurice, MA, PhD (University of Toronto
 Scarborough) (UTSC Chair)
 S. Radović, MA, PhD (University of Toronto
 Mississauga)
 T.F. Robinson, MA, PhD (University of Toronto
 Mississauga)
 W. Robins, MA, PhD (V)
 M. Sergi, PhD
 A. Slater, MFA, M Phil, MA, PhD (University of
 Toronto Mississauga)
 C. Suzack, MA, PhD
 L. Switzky, MA, PhD (University of Toronto
 Mississauga)
 H.S. Syme, AM, PhD (University of Toronto
 Mississauga)
 K. Vernon, MA, PhD (University of Toronto
 Scarborough)
 A. Walkden, M Phil, PhD
 D. Wright, MA, PhD (University of Mississauga)

Associate Professors, Teaching Stream

P. Grav, MA, PhD
 S. Rayter, MA, PhD (U)

Assistant Professors

T. Aguila-Way, MA, PhD
 D.F. Baker, MA, PhD
 C. Battershill, PhD
 U. Chakravarty, PhD (University of Toronto
 Scarborough)
 R. Mehta, MA, PhD
 F.L. Michelet, M Phil, PhD
 Y. Ryzhik, MA, PhD (University of Toronto
 Scarborough)
 M. Teramura, MA, PhD
 A. Thomas, M St, PhD (University of Toronto
 Mississauga)
 C.C. Azubuko-Udah, C Phil, PhD
 A. Walton, MTS, PhD
 K. Williams, MA, PhD

Assistant Professors, Teaching Stream

D. Flynn, PhD
 D.A. Newman, MA, PhD

Introduction

Literary study engages with some of history's most creative and articulate thinkers as they contemplate fundamental and persistent questions: How do individuals form and sustain meaningful relationships with one another? What is the purpose of art? How does language record and shape human experience? As a student in the English program, you will be introduced to the literary tradition in English, a fascinating conversation spanning over a thousand years and connecting nations and peoples all across the globe. In addition, you will be trained in methods of critical reading and writing which will help you to comprehend complex texts and the authors and societies that produced them. The skills acquired by students of English are directly applicable to any career that requires critical thinking and effective communication—from education to government, law to engineering, business to medicine, and beyond. Just as valuably, the study of English will provide you with models and tools for discovering and articulating your own perspective on the many different kinds of written texts that make up our world.

The Department of English offers courses in British, Canadian, and American literature; Indigenous literatures of North America; postcolonial, transnational, and diasporic English literatures of Africa, the Caribbean, and South Asia; and in the critical and theoretical literature through which literary critics and philosophers have developed vocabulary and methods for describing the forms, histories, and ideologies of literary art.

English courses are arranged in four levels. Courses at the 100-level introduce students, in large lectures, to the

study of English literature through sweeping surveys: of the literary tradition from Homer through the 19th century; of literature written in direct response to the events of recent decades; or of narrative forms in many genres and historical periods. Most 100-level courses include small-group tutorials, where students are introduced to critical reading and writing skills; essays at the 100-level typically do not require research or secondary sources. Courses at the 200-level provide historically, geographically, generically, or theoretically grounded introductions to the study of English literature. These include the four "gateway" courses required of all Specialists and Majors—introductions to the major national-historical fields (British, Canadian, and American) that comprise literatures in English—as well as a wide range of courses that will prepare students for further study. 300-level courses focus on particular literary periods, on diasporic literatures, and on special topics within a literature or literary genre. Courses at this level introduce students to research skills and typically require essays that incorporate secondary sources. Courses in the 400-level are both advanced and focused—unique courses created by Department faculty which often relate to their own research. Active student participation, including oral presentations, is an important part of these courses. These courses require a substantial research essay. English 400-level courses are open to students who have obtained standing in at least 9.0 credits, including 4.0 ENG credits, and who have completed [ENG202H1](#), [ENG203H1](#), [ENG250H1](#), and [ENG252H1](#) (though exemptions may be made for students registered in our pre-2018 programs).

The Department of English offers several Programs of Study. The Specialist is the most intensive and comprehensive, requiring a minimum of 10.0 credits in a 20.0 credits degree. The Major is the Department's most popular program. It provides both depth and breadth to students who wish to focus on English studies but also wish to leave room in their degrees to pursue other interests. The Minor is the Department's second-most popular program, and can be combined with Majors or Minors in a wide variety of other fields. On the presumption that the Minor is a curiosity-driven program, Minors are exempt from the required courses and distribution requirements of the Specialist and Major. In Fall 2022, the Department of English started offering a Minor in Creative Writing. The Minor in Creative Writing is a limited enrolment program with the objective of allowing students to exercise their creativity and to improve as writers through the practice-based and reflective study of genres, strategies, and techniques.

The Department of English publishes detailed course descriptions and reading lists online, usually at the beginning of May. Students are urged to consult these course descriptions at www.english.utoronto.ca before enrolment begins.

Students with questions about the English Undergraduate Programs should consult the Undergraduate Advisor.

Undergraduate Associate Chair: Professor Alex Hernandez, 170 St. George Street, Room 608

Undergraduate Advisor: Vanessa Andres, 170 St. George Street, Room 609 (416-978-5026), english.undergraduate@utoronto.ca

Regarding English Programs

Students are responsible for completing all the requirements of an English program from the Calendar of the year in which they enrolled in the program. Completion of a first-year ENG course is not a requirement for any of our programs. Please note that we do not accept ENG100H1, ENG102H1, or any CR/NCR courses toward any of our programs. Enrolment in the English Specialist program requires a final grade of at least 73% in ENG110Y1, ENG140Y1, or ENG150Y1; or a final grade of at least 73% in 2.0 ENG credits at the 200-level.

English Programs

English Specialist (Arts Program) - ASSPE1645

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- 73% in [ENG110Y1](#), [ENG140Y1](#), or [ENG150Y1](#), or
- 2.0 credits from 200-series ENG courses, with a final grade of 73% in each.

Completion Requirements:

10.0 ENG credits including 4.0 credits from 300+ level courses, at least 1.0 credit of which must be at the 400-level.

Only 1.0 credit from 100-level ENG courses may be counted. We do not accept [ENG100H1](#), [ENG102H1](#), or any CR/NCR courses toward our programs.

Courses must fulfill the following requirements:

1. [ENG202H1](#), [ENG203H1](#), [ENG250H1](#), [ENG252H1](#)
2. 0.5 ENG credit from Indigenous, Postcolonial, Transnational Literatures
3. 2.0 ENG credits from Pre-1800 British Literature

- 0.5 ENG/ JEI/ JWE credit from Theory, Language, Critical Methods
- ENG286H1 or ENG287H1. If not, one 0.5 credit in any BR=5 course

Indigenous, Postcolonial, Transnational Literatures:

ENG253H1, ENG254H1, ENG269H1, ENG270H1,
ENG355Y1, ENG356Y1, ENG367H1, ENG368H1,
ENG369H1, ENG370Y1, ENG371H1, ENG372H1

Pre-1800 British Literature:

ENG220H1, ENG240Y1, ENG300Y1, ENG302Y1,
ENG303H1, ENG305H1, ENG306Y1, ENG308Y1,
ENG311H1, ENG320Y1, ENG322Y1, ENG323H1,
ENG330H1, ENG331H1, ENG335H1, ENG337H1,
ENG373H1, ENG374H1

Theory, Language, Critical Methods:

ENG201Y1, ENG205H1, JEI206H1/ JWE206H1,
ENG280H1, ENG281H1, ENG285H1, ENG376H1,
ENG377H1, ENG382Y1, ENG384Y1, ENG385H1

English Major (Arts Program) - ASMAJ1645

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

7.0 ENG credits including 2.0 credits from 300+ level courses, at least 0.5 credit of which must be at the 400-level.

Only 1.0 credit from 100-level ENG courses may be counted. We do not accept ENG100H1, ENG102H1, or any CR/NCR courses toward our programs.

Courses must fulfill the following requirements:

- ENG202H1, ENG203H1, ENG250H1, ENG252H1
- 0.5 ENG credit from Indigenous, Postcolonial, Transnational Literatures
- 1.0 ENG credit from Pre-1800 British Literature
- 0.5 ENG/ JEI/ JWE credit from Theory, Language, Critical Methods
- ENG286H1 or ENG287H1. If not, one 0.5 credit in any BR=5 course

Indigenous, Postcolonial, Transnational Literatures:

ENG253H1, ENG254H1, ENG269H1, ENG270H1,
ENG355Y1, ENG356Y1, ENG367H1, ENG368H1,
ENG369H1, ENG370Y1, ENG371H1, ENG372H1

Pre-1800 British Literature:

ENG220H1, ENG240Y1, ENG300Y1, ENG302Y1,

ENG303H1, ENG305H1, ENG306Y1, ENG308Y1,
ENG311H1, ENG320Y1, ENG322Y1, ENG323H1,
ENG330H1, ENG331H1, ENG335H1, ENG337H1,
ENG373H1, ENG374H1

Theory, Language, Critical Methods:

ENG201Y1, ENG205H1, JEI206H1/ JWE206H1,
ENG280H1, ENG281H1, ENG285H1, ENG376H1,
ENG377H1, ENG382Y1, ENG384Y1, ENG385H1

English Minor (Arts Program) - ASMIN1645

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

4.0 ENG credits, including 1.0 credit from 300+level ENG courses.

Only 1.0 credit from 100-level ENG courses may be counted. We do not accept ENG100H1, ENG102H1, or any CR/NCR courses toward our programs.

Minor in Creative Writing (Arts Program) - ASMIN1646

The Minor in Creative Writing allows students to exercise their creativity and to improve as writers through the practice-based and reflective study of genres, strategies, and techniques. The program includes lecture courses on forms including short fiction, poetry, and creative nonfiction; form-specific workshops focused on the discussion of students' work; opportunities to write in longer forms such as the novella and the poetry collection; and seminars on subjects such as the publishing industry and literary culture. Through these courses, students will develop their writing and editorial skills while gaining a better understanding of literary craft and of writing beyond the university.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

For students who have completed 4.0 to 8.5 credits:

- ENG110Y1, ENG140Y1, or ENG150Y1 with a final grade of at least 77%

For students who have completed 9.0 or more credits:

- 2.0 credits in 200-level ENG courses, each with a final grade of at least 77%

Completion Requirements:

(4.0 credits as follows, including at least 1.5 credits at the 300 level or above)

1. 1.5 credits from: ENG110Y1, ENG140Y1, ENG150Y1, ENG201Y1, ENG205H1, ENG210H1, ENG213H1, ENG215H1, ENG234H1, ENG235H1, ENG237H1, ENG239H1, ENG285H1, ENG287H1
2. ENG289H1
3. 2.0 credits from the following: ENG387H1/ CRE279H1, ENG388H1/ CRE280H1, ENG389H1/ CRE275H1/ WRR311Y1, ENG394H1, ENG497H1, ENG498H1; approved courses offered by other departments and programs (see list of Cognate Courses below).

Accepted Cognate Courses:

- Writing and Rhetoric: WRR211H1, WRR311Y1
- Drama, Theatre and Performance Studies: DRM228H1, DRM328H1, DRM428H1
- Creative Expression and Society: CRE275H1, CRE276H1, CRE279H1, CRE280H1, CRE282H1, CRE350Y1, CRE479H1, CRE479Y1, CRE480H1

Notes:

- We do not accept any CR/NCR courses toward our program.
- 200-level English courses in the program are open to students who have obtained standing in 1.0 ENG credit or in any 4.0 credits. Students without these prerequisites may enrol in a 200-level course if they are concurrently enrolled in ENG110Y1, ENG140Y1, or ENG150Y1.
- ENG387H1, ENG388H1, ENG389H1, and ENG394H1 are open to students who have obtained standing in ENG289H1 and any further 3.5 credits.
- ENG497H1 and ENG498H1 are open to students who have obtained standing in 9.0 credits, including ENG289H1 and any additional 1.5 ENG credits.
- ENG387H1, ENG388H1, ENG389H1, ENG394H1, ENG497H1, and ENG498H1 may not

be counted toward fulfilling the requirements for the Specialist, Major, or Minor programs in English.

- Please note that prerequisites and exclusions will be strictly enforced.

Regarding English Courses

Please note that not all courses are offered every year.

Only ONE of ENG110Y1, ENG140Y1, or ENG150Y1 may be counted toward English program requirements. ENG100H1 and ENG102H1 may not be used to meet the requirements of any English program. First-year students may enrol in a 200-level ENG course if they are concurrently enrolled in ENG110Y1, ENG140Y1, or ENG150Y1. English 200-level courses are open to students who have obtained standing in 1.0 ENG credit or in any 4.0 credits. Students without these prerequisites may enrol in a 200-level course if they are concurrently enrolled in ENG110Y1, ENG140Y1, or ENG150Y1. English 300-level courses are open to students who have obtained standing in 4.0 credits, including 2.0 ENG credits. English 400-level courses are open to students who have obtained 4.0 ENG credits (including ENG202H1, ENG203H1, ENG250H1, ENG252H1); and any 9.0 credits (though exemptions may be made for students registered in our pre-2018 programs). Students who require a 400-level course to satisfy their program requirements have enrolment priority in the first round of course enrolment. Individual topics to be specified by instructors. Seminars are designed to provide students with the opportunity to practice their skills of research and interpretation at a particularly advanced level. These courses are not eligible for the CR/NCR option. Prerequisites and exclusions will be strictly enforced.

Combined Degree Program (CDP) offered with Victoria College and Ontario Institute for Studies in Education (OISE)

- Combined Degree Program in HBA/HBSc and Master of Teaching (MT)

Students enrolled in the Minor in Education and Society and Major in English may apply for this Combined Degree Program. For details about application and program requirements, see the Combined Degree Programs section.

English Courses

ENG100H1 - Effective Writing

Hours: 36L

Practical tools for writing in university and beyond. Students will gain experience in generating ideas, clarifying insights, structuring arguments, composing paragraphs and sentences, critiquing and revising their writing, and communicating effectively to diverse audiences. This course may not be counted toward any English program.

Breadth Requirements: Creative and Cultural Representations (1)

ENG102H1 - Literature and the Sciences

Hours: 36L

Literature has always provided a place for the imaginative exploration of science, technology, and the physical universe. For students interested in literary treatments of science and scientific problems, concerns, and methods. Assumes no background in the methods and techniques of literary scholarship. This course may not be counted toward any English program.

Breadth Requirements: Creative and Cultural Representations (1)

ENG110Y1 - Narrative

Hours: 48L/24T

This course explores the stories that are all around us and that shape our world: traditional literary narratives such as ballads, romances, and novels, and also non-literary forms of narrative, such as journalism, movies, myths, jokes, legal judgments, travel writing, histories, songs, diaries, biographies.

Breadth Requirements: Creative and Cultural Representations (1)

ENG140Y1 - Literature for our Time

Hours: 48L/24T

An exploration of how recent literature in English responds to our world. Includes poetry, prose, and drama by major

writers of the twentieth century and emerging writers of the current century.

Breadth Requirements: Creative and Cultural Representations (1)

ENG150Y1 - Literary Traditions

Hours: 48L/24T

An introduction to major authors, ideas, and texts that shaped and continue to inform the ever-evolving traditions of literature in English. Includes works and authors from antiquity to the nineteenth century such as the Bible, the Qur'an, Plato, Homer, Sappho, Virgil, Dante, Christine de Pizan, Shakespeare, Cervantes, Montaigne, Austen, Dostoevski.

Breadth Requirements: Creative and Cultural Representations (1)

ENG196H1 - Cook the Books

Hours: 36S

If, as Brillat-Savarin so famously said, "you are what you eat", then what are we? What do our eating choices reveal about us and what we value? In this class, we will examine stories about farming, cooking, and eating in order to understand how culture shapes culinary traditions and vice versa. But we don't stop there: through cooking and eating together, we will create new stories about our food and our relationship to the earth that sustains us. Co-taught with a professional chef, this course combines literary and historical analysis with hands-on cooking classes, shared meals, and food-oriented field trips. Restricted to first-year students. Not eligible for CR/NCR option. An additional fee to cover food and field trip costs is required.

Exclusion: ENG197H1, ENG198H1, ENG199H1

Breadth Requirements: Creative and Cultural Representations (1)

ENG197H1 - Time Travel and Narrative

Hours: 24S

From H.G. Wells to *Star Trek* to *Bill and Ted's Excellent Adventure*, tales of time travelers remain captivating. What does our fascination with time travel tell us about storytelling and narrative? This course will explore the questions that time travel raises about narrative as well as history, temporality, subjectivity, and agency. We will look at examples of time travel in film, television, and books as

well as philosophical and scientific writing about it. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: ENG196H1, ENG198H1, ENG199H1

Breadth Requirements: Creative and Cultural Representations (1)

ENG198H1 - Representing Disability

Hours: 24S

Understanding disability as a cultural concept—not a medical condition or personal misfortune—that describes how human variation matters in the world, this course asks: how do literary texts represent physical and intellectual disability? Reading drama, fiction, and poetry, we will consider how disability prompts new strategies of writing and thinking, in order to consider what new forms of representation disability can produce, and what the concept of disability can teach us about being human. We will consider literary, visual, performative, and performance-based possibilities for bodies and minds that resist normative structures, theorize ideas of access, cure, and care, and claim disability as enlivening identity. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: ENG196H1, ENG197H1, ENG199H1

Breadth Requirements: Creative and Cultural Representations (1)

ENG199H1 - Tree Stories

Hours: 24S

Trees are all around us. We climb them, tell stories about them, write on paper, at desks, in homes made from them. But most people tend to take them for granted. This course considers how we imagine trees in works of art and legend and what trees can teach us about our own place in the world. We will read stories and poems as well as exploring the trees around campus and the environment we share. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: ENG196H1, ENG197H1, ENG198H1

Breadth Requirements: Creative and Cultural Representations (1)

ENG201Y1 - Reading Poetry

Hours: 72L

An introduction to poetry through a close reading of texts, focusing on its traditional forms, themes, techniques, and uses of language; its historical and geographical range; and its twentieth-century diversity.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG202H1 - Introduction to British Literature I

Previous Course Number: ENG202Y1

Hours: 36L

An introduction to British literature, exploring works in poetry, prose, and drama from the medieval period to the end of the seventeenth century.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Exclusion: ENG202Y1

Breadth Requirements: Creative and Cultural Representations (1)

ENG203H1 - Introduction to British Literature II

Previous Course Number: ENG202Y1

Hours: 36L

An introduction to British literature, exploring works in poetry, prose, and drama from the end of the seventeenth century into the twentieth century.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Exclusion: ENG202Y1

Breadth Requirements: Creative and Cultural Representations (1)

JWE206H1 - Writing English Essays

Previous Course Number: JEI206H1

Hours: 24L/12T

This course teaches students who already write effectively how to write clear, compelling, research-informed English essays. The course aims to help students recognize the function of grammar and rhetoric, the importance of audience, and the persuasive role of style.

Prerequisite: Completion of 1.0 ENG credit or any 4.0 credits

Exclusion: JEI206H1

Breadth Requirements: Creative and Cultural Representations (1)

ENG210H1 - Introduction to the Novel

Previous Course Number: ENG210Y1

Hours: 36L

An introduction to the novel as literary genre through a reading of five or six key novels from a range of periods and regions.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Exclusion: ENG210Y1

Breadth Requirements: Creative and Cultural Representations (1)

ENG213H1 - The Short Story

Hours: 36L

This course explores shorter works of nineteenth- and twentieth-century writers. Special attention is paid to formal and rhetorical concepts for the study of fiction as well as to issues such as narrative voice, allegory, irony, and the representation of temporality.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG215H1 - The Canadian Short Story

Hours: 36L

An introduction to the Canadian short story, this course emphasizes its rich variety of settings, subjects, and styles.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG220H1 - Introduction to Shakespeare

Previous Course Number: ENG220Y1

Hours: 36L

An introduction to Shakespeare's work through five or six representative plays. Readings may include non-dramatic poetry as well as plays.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Exclusion: ENG220Y1, ENG320Y1

Breadth Requirements: Creative and Cultural Representations (1)

ENG234H1 - Children's Literature

Hours: 36L

A critical and historical study of poetry and fiction written for or appropriated by children, this course may also include drama or non-fiction and will cover works by at least twelve authors such as Bunyan, Stevenson, Carroll, Twain, Alcott, Nesbit, Montgomery, Milne, Norton, Fitzhugh.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG235H1 - The Graphic Novel

Hours: 36L

An introduction to book-length sequential art, this course includes fictional and nonfictional comics, with a focus on formal properties such as narrative layout and text/art hybridity. Themes vary but may include superheroes; auto/biography; the figure of the outsider; women in comics; alienation and youth; and war reporting.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG237H1 - Science Fiction

Hours: 36L

This course explores speculative fiction that invents or extrapolates an inner or outer cosmology from the physical, life, social, and human sciences. Typical subjects include AI, alternative histories, cyberpunk, evolution, future and dying worlds, genetics, space/time travel, strange species, theories of everything, utopias, and dystopias.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG239H1 - Fantasy and Horror

Hours: 36L

This course explores speculative fiction of the fantastic, the magical, the supernatural, and the horrific. Subgenres may include alternative histories, animal fantasy, epic fantasy, the Gothic, fairy tales, magic realism, sword and sorcery, and vampire fiction.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG240Y1 - Old English Language and Literature

Hours: 72L

Prepares students to read the oldest English literary forms in the original language. Introduces the earliest English poetry in a woman's voice, expressions of desire, religious fervour, and the agonies of war. Texts, written 680 - 1100, range from the epic of *Beowulf* the dragon-slayer to ribald riddles.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG250H1 - Introduction to American Literature

Previous Course Number: ENG250Y1

Hours: 36L

An introduction to American literature, exploring works in a variety of genres, including poetry, fiction, essays, and slave narratives.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Exclusion: ENG250Y1

Breadth Requirements: Creative and Cultural Representations (1)

ENG252H1 - Introduction to Canadian Literature

Previous Course Number: ENG252Y1

Hours: 36L

An introduction to Canadian literature, exploring works in poetry, prose, and drama from early to recent times.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Exclusion: ENG252Y1

Breadth Requirements: Creative and Cultural Representations (1)

ENG253H1 - Caribbean Literature

Hours: 36L

An introduction to Caribbean poetry, prose, and drama in English or translation.

Prerequisite: English 200-level courses are open to students who have obtained standing in 1.0 ENG credit or in any 4.0 credits. Students without these prerequisites may enrol in a 200-level course if they are concurrently enrolled in ENG110Y1, ENG140Y1 or ENG150Y1.

Breadth Requirements: Creative and Cultural Representations (1)

ENG254H1 - Introduction to Indigenous Literatures

Previous Course Number: ENG254Y1

Hours: 36L

An introduction to Indigenous writings in English, with significant attention to Indigenous literatures in Canada. The writings are placed within the context of Indigenous cultural and political continuity, linguistic and territorial diversity, and living oral traditions. The primary focus may be on contemporary Indigenous writing.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Exclusion: ENG254Y1

Breadth Requirements: Creative and Cultural Representations (1)

ENG269H1 - English Literature and Chinese Translation

Hours: 36L

This course studies how works of English literature have been translated and presented in modern Chinese culture. It requires no background in translation or literary studies. Through exercises and workshops, students will be exposed to works by British, American, and Canadian authors. Students will engage with issues in translation studies and learn practical skills of translation from English to Chinese. Class will be taught primarily in English, supplemented by Mandarin. Assignments to be completed in English. Reading knowledge of Mandarin is required.

Prerequisite: 1.0 ENG credit or any 4.0 credits, reading knowledge of Mandarin

Breadth Requirements: Thought, Belief and Behaviour (2)

ENG270H1 - Introduction to Colonial and Postcolonial Writing

Previous Course Number: ENG270Y1

Hours: 36L

In this course, we examine the colonial archive for its representations of race, indigeneity, sexuality, and capital accumulation. We familiarize ourselves with the aesthetic and political modes of resisting colonial power around the world. Besides literary texts, our objects of study may include photographs, film, and digital media.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Exclusion: ENG270Y1

Breadth Requirements: Creative and Cultural Representations (1)

ENG273Y1 - Queer Writing

Hours: 72L

Introducing a lesbian, gay, bisexual, trans, and queer tradition in literature and theory, this course explores classical, modern, postmodern, and contemporary literature, criticism, art, film, music, and popular culture.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG280H1 - Critical Approaches to Literature

Hours: 36L

An introduction to the theory and practice of literary criticism. Focusing on a single text or small group of texts, students will gain experience with close reading and analysis, critical theory, research methods, and the conventions and skills particular to literary-critical writing.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG281H1 - Writing About Literature

Hours: 24L/12T

An introduction to the skills and contexts that underlie university-level writing about literature. Students will

analyze the style and mechanics of literary criticism in a variety of fields, including published essays by Department faculty. Guest speakers and writing-intensive tutorials will help students begin to join the critical conversation.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG285H1 - The English Language in the World

Hours: 36L

This introductory course surveys transnational, regional, and social varieties of Later Modern English; the linguistic and social factors that have shaped them; their characteristic structures; and their uses in speech and in writing, both literary and non-literary.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

ENG286H1 - Literature and Data

Hours: 24L/12T

Geared toward the interests and aptitudes of humanities students, this course provides an accessible introduction to computer programming, statistics, and data science, and equips students with the practical and theoretical skills to engage critically with literary data and computation. What new insights about literary form, history, or culture might we glean from a spreadsheet of bestsellers, a database of fan fiction, or an archive containing more novels than any individual could ever read? What gaps exist in literary datasets, and what biases are enshrined in code? No programming or statistical experience required or expected.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Exclusion: CSC111H1, CSC148H1, STA130H1, STA238H1, STA248H1, STA261H1, GGR274H1, EEB125H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ENG287H1 - The Digital Text

Hours: 24L/12T

This course explores the stakes and consequences of literature's transition from printed to digital forms. How do

digital and printed texts differ materially, and how does this affect literary form, authorship, consumption, reception — and society more broadly? What new expressive possibilities are present in “born digital” forms like webcomics, fan fiction, interactive fiction, and videogames? How do social media and online reading communities impact the way that literature is marketed and discussed? Will electronic archives make literature more accessible, or less? How do digital texts challenge existing definitions of what counts as “literature”?

Prerequisite: 1.0 ENG credit or any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG289H1 - Introduction to Creative Writing

Hours: 36L

An introduction to creative writing, especially poetry and short fiction, attending to conventions of literary forms and genres, as well as to writing strategies, techniques, and terminology.

Prerequisite: 1.0 ENG credit or any 4.0 credits

Exclusion: ENG389Y1

Breadth Requirements: Creative and Cultural Representations (1)

ENG296Y0 - Topics in English Literature

Content varies with Instructor. Offered by the Summer Abroad program, usually in Oxford, England.

Prerequisite: 1.0 ENG credit or any 4.0 credits

ENG297Y0 - Topics in English Literature

Content varies with Instructor. Offered by the Summer Abroad program, usually in Siena, Italy.

Prerequisite: 1.0 ENG credit or any 4.0 credits

ENG299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

ENG300Y1 - Chaucer

Hours: 72L

An in-depth study of Chaucer's major works, including *The Canterbury Tales* and *Troilus and Criseyde*.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG302Y1 - English Renaissance Literature

Hours: 72L

A survey of some of the major works in English poetry and prose written between 1500 and 1660. Some dramatic literature may be considered as well.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Exclusion: ENG304Y1

Breadth Requirements: Creative and Cultural Representations (1)

ENG303H1 - Milton

Hours: 36L

Selections from *Paradise Lost* and other works.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG305H1 - Swift, Pope, and Their Contemporaries

Hours: 36L

Selected works in prose and verse by Swift and Pope studied alongside works by their contemporaries. Topics may include the legitimacy of satire, the role of criticism, and the growing importance of writing by women.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG306Y1 - Restoration and Eighteenth-Century Literature

Hours: 72L

A study of selected works by Dryden, Pope, Swift, Johnson, and at least six other authors.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG308Y1 - Romantic Literature

Hours: 72L

Poetry and critical prose of Blake, W. Wordsworth, Coleridge, Byron, P.B. Shelley, and Keats; may include selections from other writers such as Crabbe, Scott, Landor, Clare, D. Wordsworth, M. Shelley, De Quincey.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG311H1 - Medieval Literature

Hours: 36L

This course explores a selection of writings in early English, excluding those by Chaucer.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG320Y1 - Shakespeare

Hours: 72L

An in-depth study of Shakespeare's work, covering the different periods of his career and the different genres in which he worked. Readings may include non-dramatic poetry as well as plays.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG322Y1 - The Rise of the Novel

Hours: 72L

This course, spanning from 1660 to the 1830s, studies the emergence of prose fiction as a genre recognized in both a literary and a commercial sense. Authors may include Behn, Defoe, Richardson, Fielding, Sterne, Scott, Austen.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG323H1 - Austen and Her Contemporaries

Hours: 36L

A study of selected novels of Jane Austen and of works by such contemporaries as Radcliffe, Godwin, Wollstonecraft, Wordsworth, Edgeworth, Scott, and Shelley, in the context of the complex literary, social, and political relationships of that time.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG324Y1 - The Victorian Novel

Hours: 72L

A study of such topics as the comic art of Dickens, Trollope, and Thackeray; the Gothicism of the Brontës; the crisis of religious faith in George Eliot; and the powerful moral fables of Hardy. Students will read 10-12 novels.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG328Y1 - Modern Fiction

Hours: 72L

This course explores ten to twelve works by such writers as James, Conrad, Cather, Forster, Joyce, Woolf, Lawrence, Faulkner, Rhys, Hemingway, Achebe, Ellison, Spark, Lessing.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG329H1 - Contemporary British Fiction

Hours: 36L

This course explores six or more works by at least four British contemporary writers of fiction.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG330H1 - Medieval Drama

Hours: 36L

Plays and other texts composed for live performance across the first millennium of English history, primarily 1300-1485; morality plays, biblical pageants, solo performances, large-scale spectacles, mummings, religious rituals, rude songs, recovered fragments. Basic training in reading/translating medieval English sources and in decoding early cues for staging.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG331H1 - Drama 1485-1603

Hours: 36L

Plays and performance history across Britain, 1485 to 1603; the rise of London theatres and of named English and Scottish playwrights (Medwall, Redford, Marlowe, Shakespeare, etc.); anonymous sixteenth-century plays from Cheshire, Yorkshire, East Anglia, and Cambridgeshire; traces of lost performances in the archives.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG335H1 - Drama 1603-1642

Hours: 36L

This course explores English drama from the death of Queen Elizabeth I to the closing of the theatres, with attention to such playwrights as Jonson, Middleton, Shakespeare, Webster.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG337H1 - Drama 1660-1800

Hours: 36L

At least twelve plays, including works by Dryden, Wycherley, Congreve, and their successors, chosen to demonstrate the modes of drama practiced during the period, the relationship between these modes and that between the plays and the theatres for which they were designed.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG340H1 - Modern Drama

Hours: 36L

A study of plays in English by such dramatists as Wilde, Yeats, Shaw, Synge, Glaspell, Hughes, O'Neill, as well as plays in translation by such dramatists as Ibsen, Chekhov, Strindberg, Pirandello.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG341H1 - Post-Modern Drama

Hours: 36L

A study of plays by such dramatists as Beckett, Miller, Williams, Pinter, Soyinka, Churchill, with background readings from other dramatic literatures.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG347Y1 - Victorian Literature

Hours: 72L

A survey of major texts in a variety of genres by authors such as Darwin, Tennyson, Browning, Wilde, Nightingale, Christina Rossetti, Kipling.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG348Y1 - Modern Poetry to 1960

Hours: 72L

Special study of Yeats, Pound, Eliot, Auden, Stevens; selections from other poets.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG349H1 - Contemporary Poetry

Hours: 36L

Works by at least six contemporary poets, such as Ammons, Ashbery, Heaney, Hughes, Lowell, Muldoon, Plath.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG350H1 - Early Canadian Literature

Hours: 36L

Writing in English Canada before 1914, from a variety of genres such as the novel, poetry, short stories, exploration and settler accounts, nature writing, criticism, First Nations cultural production.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG352H1 - Canadian Drama

Hours: 36L

A study of major Canadian playwrights and developments since 1940, with some attention to the history of the theatre in Canada.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG353Y1 - Canadian Fiction

Hours: 72L

A study of ten to twelve Canadian works of fiction, primarily novels.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG354Y1 - Canadian Poetry

Hours: 72L

A study of major Canadian poets, modern and contemporary.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG355Y1 - Transnational Indigenous Literatures

Previous Course Number: ENG355H1
Hours: 72L

A study of works by Indigenous writers from North America and beyond, with significant attention to Indigenous writers in Canada. Texts engage with issues of de/colonization, representation, gender, and sexuality, and span multiple genres, including fiction, life writing, poetry, drama, film, music, and creative non-fiction.

Prerequisite: 2.0 ENG credits and any 4.0 credits
Exclusion: ENG355H1
Breadth Requirements: Creative and Cultural Representations (1)

ENG356Y1 - African Canadian Literature

Previous Course Number: ENG359H1
Hours: 72L

Black Canadian Literature (poetry, drama, fiction, non-fiction) from its origin in the African Slave Trade in the eighteenth century to its current flowering as the expression of immigrants, exiles, refugees, ex-slave-descended, and colonial-settler-established communities. Pertinent theoretical works, films, and recorded music are also considered.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Exclusion: ENG359H1

Breadth Requirements: Creative and Cultural Representations (1)

ENG357H1 - New Writing in Canada

Hours: 36L

Close encounters with recent writing in Canada: new voices, new forms, and new responses to old forms. Texts may include or focus on poetry, fiction, drama, non-fiction, or new media.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG360H1 - Early American Literature

Hours: 36L

This course explores writing in a variety of genres produced in the American colonies in the seventeenth and eighteenth centuries, such as narratives, poetry, autobiography, journals, essays, sermons, court transcripts.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG363Y1 - American Literature to 1900

Hours: 72L

This course explores American writing in a variety of genres from the end of the Revolution to the beginning of the twentieth century.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG364Y1 - American Literature 1900 to the present

Hours: 72L

This course explores twentieth-century American writing in a variety of genres.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG365H1 - Contemporary American Fiction

Hours: 36L

This course explores six or more works by at least four contemporary American writers of fiction.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG367H1 - African Literatures in English

Hours: 36L

What, if anything, is distinctively "African" in African texts; what might it mean to produce "African" readings of African literature? We address these, as well as other questions, through close readings of oral performances and literary and other cultural texts.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG368H1 - Asian North American Literature

Hours: 36L

Literature and cultures of Asian Canadians and Asian Americans, including fiction, poetry, theory, drama, film, and other media.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG369H1 - South Asian Literatures in English

Hours: 36L

Major authors and literary traditions of South Asia, with specific attention to literatures in English from India, Sri Lanka, Pakistan, Bangladesh, and the diaspora. The

focus will be on fiction and poetry with some reference to drama.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG370Y1 - Postcolonial and Transnational Discourses

Previous Course Number: ENG370H1

Hours: 72L

This course focuses on recent theorizations of postcoloniality and transnationality through readings of fictional and non-fictional texts, along with analyses of contemporary films and media representations.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Exclusion: ENG370H1

Breadth Requirements: Creative and Cultural Representations (1)

ENG371H1 - Topics in Indigenous, Postcolonial, Transnational Literatures

Hours: 36L

Sustained study in a topic pertaining to Indigenous, postcolonial, or transnational literatures. Content varies with instructors. See Department website for current offerings. Course may not be repeated under the same subtitle.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG372H1 - Topics in Indigenous, Postcolonial, Transnational Literatures

Hours: 36L

Sustained study in a topic pertaining to Indigenous, postcolonial, or transnational literatures. Content varies with instructors. See Department website for current offerings. Course may not be repeated under the same subtitle.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG373H1 - Topics in Pre-1800 British Literature

Hours: 36L

Sustained study in a topic pertaining to British literature before 1800. Content varies with instructors. See Department website for current offerings. Course may not be repeated under the same subtitle.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG374H1 - Topics in Pre-1800 British Literature

Hours: 36L

Sustained study in a topic pertaining to British literature before 1800. Content varies with instructors. See Department website for current offerings. Course may not be repeated under the same subtitle.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG376H1 - Topics in Theory, Language, Critical Methods

Hours: 36L

Sustained study in a topic pertaining to literary theory, critical methods, or linguistics. Content varies with instructors. See Department website for current offerings. Course may not be repeated under the same subtitle.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG377H1 - Topics in Theory, Language, Critical Methods

Hours: 36L

Sustained study in a topic pertaining to literary theory, critical methods, or linguistics. Content varies with instructors. See Department website for current offerings. Course may not be repeated under the same subtitle.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG378H1 - Special Topics

Hours: 36L

Sustained study in a variety of topics, including: Canadian literature, American literature, Post-1800 British literature, and genres or themes that span across nations and periods. Content varies with instructors. See Department website for current offerings. Course may not be repeated under the same subtitle.

Note: An additional fee of \$123 will apply to the "Cook the Books" subtitle offering.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG379H1 - Special Topics

Hours: 36L

Sustained study in a variety of topics, including: Canadian literature, American literature, Post-1800 British literature, and genres or themes that span across nations and periods. Content varies with instructors. See Department website for current offerings. Course may not be repeated under the same subtitle.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG382Y1 - Literary Theory

Hours: 72L

This course explores contemporary literary theory, but may include related readings from earlier periods. Schools or movements studied may include structuralism, formalism, phenomenology, Marxism, post-structuralism, reader-response theory, feminism, queer theory, new historicism, psychoanalysis, postcolonial theory, critical race studies, and ecocriticism.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

ENG384Y1 - Literature and Psychoanalysis

Hours: 72L

An introduction to psychoanalysis for students of literature, this course considers major psychoanalytic ideas through close readings of selected texts by Freud. The course also explores critiques and applications of Freud's work and examines a selection of literary texts that engage psychoanalytic theory.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

ENG385H1 - History of the English Language

Hours: 36L

This course explores English from its prehistory to the present day, emphasizing Old, Middle, and Early Modern English and the theory and terminology needed to understand their lexical, grammatical, and phonological structure; language variation and change; codification and standardization; literary and non-literary usage.

Prerequisite: 2.0 ENG credits and any 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

ENG387H1 - Creative Writing: Creative Nonfiction

Hours: 36S

A course devoted to the study and production of creative nonfiction, with attention to such matters as literary style and rhetoric, authorial self-positioning, and political and ethical considerations. Genres to be considered may include journalism, criticism, essays, biography, memoir, and autotheory. Priority enrolment will be given to students in the Creative Writing Minor. Not eligible for CR/NCR option.

Prerequisite: 4.0 credits including [ENG289H1](#)

Exclusion: [CRE279H1](#); [INI308H1](#) (Selected Topics in Writing and Rhetoric: Writing Literary Journalism), offered in Summer 2021; [WRR312H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

ENG388H1 - Creative Writing: Poetry

Previous Course Number: ENG389Y1

Hours: 36S

A course devoted to the craft of writing poetry, with attention to a range of forms, genres, styles, and compositional methods. The workshoping of student writing will take place alongside discussions of key texts in the field. Priority enrolment will be given to students in the Creative Writing Minor. Not eligible for CR/NCR option.

Prerequisite: 4.0 credits including ENG289H1

Exclusion: ENG389Y1, CRE280H1, ENG373H5, ENGB60H3, ENG86H3

Breadth Requirements: Creative and Cultural Representations (1)

ENG389H1 - Creative Writing: Short Fiction

Previous Course Number: ENG389Y1

Hours: 36S

A course devoted to the craft of writing short fiction, with attention to matters such as genre, narratorial perspective, characterization, plot, style, and setting. The workshoping of student writing will take place alongside discussions of key texts in the field. Priority enrolment will be given to students in the Creative Writing Minor. Not eligible for CR/NCR option.

Prerequisite: 4.0 credits including ENG289H1

Exclusion: ENG389Y1, CRE275H1, ENG374H5, ENGB61H3, ENG87H3, WRR311Y1

Breadth Requirements: Creative and Cultural Representations (1)

ENG390Y1 - Individual Studies

A scholarly project chosen by the student and supervised by a member of the staff. The form of the project and the manner of its execution are determined in consultation with the supervisor. Proposal forms and deadlines are available on the department website. Not eligible for CR/NCR option.

Prerequisite: 3.0 ENG credits, any 4.0 credits, and permission of the instructor and the Associate Chair

Exclusion: ENG392H1

ENG392H1 - Individual Studies

A scholarly project chosen by the student and supervised by a member of the staff. The form of the project and the

manner of its execution are determined in consultation with the supervisor. Proposal forms and deadlines are available on the department website. Not eligible for CR/NCR option.

Prerequisite: 3.0 ENG credits, any 4.0 credits, and permission of the instructor and the Associate Chair

Exclusion: ENG390Y1

ENG394H1 - Creative Writing: Special Topics

Hours: 36S

Sustained study and creative practice with respect to a topic pertaining to Creative Writing: e.g., writing for children; science fiction and fantasy; digital/interactive stories; writing across culture; writing and the environment. Content varies with instructors. Class format may include seminar discussion and a workshop devoted to student writing. See Department website for current offerings. Course may not be repeated under the same subtitle. Priority enrolment will be given to students enrolled in the Creative Writing Minor.

Prerequisite: 4.0 credits including ENG289H1

Breadth Requirements: Creative and Cultural Representations (1)

ENG398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

ENG398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

ENG399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research>

-opportunities/research-opportunities-program. Not eligible for CR/NCR option.

ENG480H1 - Advanced Studies Seminar

Hours: 24S

Seminars are designed to provide students with the opportunity to practice their skills of research and interpretation, and to participate in critical discussion, at a particularly advanced level. All seminars demand substantial class participation and most require an oral presentation. Not eligible for CR/NCR option.

Prerequisite: 4.0 ENG credits (including ENG202H1, ENG203H1, ENG250H1, ENG252H1) and any 9.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG481H1 - Advanced Studies Seminar

Hours: 24S

Seminars are designed to provide students with the opportunity to practice their skills of research and interpretation, and to participate in critical discussion, at a particularly advanced level. All seminars demand substantial class participation and most require an oral presentation. Not eligible for CR/NCR option.

Prerequisite: 4.0 ENG credits (including ENG202H1, ENG203H1, ENG250H1, ENG252H1) and any 9.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG482H1 - Advanced Studies Seminar

Hours: 24S

Seminars are designed to provide students with the opportunity to practice their skills of research and interpretation, and to participate in critical discussion, at a particularly advanced level. All seminars demand substantial class participation and most require an oral presentation. Not eligible for CR/NCR option.

Prerequisite: 4.0 ENG credits (including ENG202H1, ENG203H1, ENG250H1, ENG252H1) and any 9.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG483H1 - Advanced Studies Seminar

Hours: 24S

Seminars are designed to provide students with the opportunity to practice their skills of research and interpretation, and to participate in critical discussion, at a particularly advanced level. All seminars demand substantial class participation and most require an oral presentation. Not eligible for CR/NCR option.

Prerequisite: 4.0 ENG credits (including ENG202H1, ENG203H1, ENG250H1, ENG252H1) and any 9.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG484H1 - Advanced Studies Seminar

Hours: 24S

Seminars are designed to provide students with the opportunity to practice their skills of research and interpretation, and to participate in critical discussion, at a particularly advanced level. All seminars demand substantial class participation and most require an oral presentation. Not eligible for CR/NCR option.

Prerequisite: 4.0 ENG credits (including ENG202H1, ENG203H1, ENG250H1, ENG252H1) and any 9.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG485H1 - Advanced Studies Seminar

Hours: 24S

Seminars are designed to provide students with the opportunity to practice their skills of research and interpretation, and to participate in critical discussion, at a particularly advanced level. All seminars demand substantial class participation and most require an oral presentation. Not eligible for CR/NCR option.

Prerequisite: 4.0 ENG credits (including ENG202H1, ENG203H1, ENG250H1, ENG252H1) and any 9.0 credits
Breadth Requirements: Creative and Cultural Representations (1)

ENG486H1 - Advanced Studies Seminar

Hours: 24S

Seminars are designed to provide students with the opportunity to practice their skills of research and interpretation, and to participate in critical discussion, at a

particularly advanced level. All seminars demand substantial class participation and most require an oral presentation. Not eligible for CR/NCR option.

Prerequisite: 4.0 ENG credits (including [ENG202H1](#), [ENG203H1](#), [ENG250H1](#), [ENG252H1](#)) and any 9.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG487H1 - Advanced Studies Seminar

Hours: 24S

Seminars are designed to provide students with the opportunity to practice their skills of research and interpretation, and to participate in critical discussion, at a particularly advanced level. All seminars demand substantial class participation and most require an oral presentation. Not eligible for CR/NCR option.

Prerequisite: 4.0 ENG credits (including [ENG202H1](#), [ENG203H1](#), [ENG250H1](#), [ENG252H1](#)) and any 9.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG488H1 - Advanced Studies Seminar

Hours: 24S

Seminars are designed to provide students with the opportunity to practice their skills of research and interpretation, and to participate in critical discussion, at a particularly advanced level. All seminars demand substantial class participation and most require an oral presentation. Not eligible for CR/NCR option.

Prerequisite: 4.0 ENG credits (including [ENG202H1](#), [ENG203H1](#), [ENG250H1](#), [ENG252H1](#)) and any 9.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG489H1 - Advanced Studies Seminar

Hours: 24S

Seminars are designed to provide students with the opportunity to practice their skills of research and interpretation, and to participate in critical discussion, at a particularly advanced level. All seminars demand substantial class participation and most require an oral presentation. Not eligible for CR/NCR option.

Prerequisite: 4.0 ENG credits (including [ENG202H1](#), [ENG203H1](#), [ENG250H1](#), [ENG252H1](#)) and any 9.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ENG497H1 - Advanced Creative Writing Seminar: Literary Citizenship

Hours: 24S

A course examining efforts to build and sustain literary culture and literary communities through individual initiatives and collective efforts. Topics may include book reviewing, youth engagement, small presses, writers' organizations, and the state's role in the publishing industry. Priority enrolment will be given to students enrolled in the Creative Writing Minor.

Prerequisite: 9.0 credits including [ENG289H1](#) and 1.5 additional ENG credits.

Breadth Requirements: Creative and Cultural Representations (1)

ENG498H1 - Advanced Creative Writing Seminar: Long-Form Writing

Hours: 24S

Students study and produce long-form creative work in a genre of their choice (the novella, short stories, the long poem) or in a genre determined by the professor. Beyond craft and literary analysis, this course develops capacities that writers need to cultivate for future success, such as idea-generation, persistence, independence, and creative problem-solving. Priority enrolment will be given to students enrolled in the Creative Writing Minor.

Prerequisite: 9.0 credits including [ENG289H1](#) and 1.5 additional ENG credits.

Breadth Requirements: Creative and Cultural Representations (1)

ENG499Y1 - Advanced Research Seminar

Hours: 48S

A seminar designed to provide students with the opportunity to practice their skills of research and interpretation at a particularly advanced level, especially suited for students considering a graduate degree in English or a related discipline. The course is open to Year 4 students in English Specialist and Major programs who have achieved 80% in all English courses they have taken at the 200-level or above. Students also need 4.0 ENG credits (including [ENG202H1](#), [ENG203H1](#), [ENG250H1](#), [ENG252H1](#)).

Not eligible for CR/NCR option.

Prerequisite: 14.0 credits, including ENG202H1, ENG203H1, ENG250H1, ENG252H1, and an additional 2.0 ENG credits. A minimum of 80% must be achieved in all ENG courses taken at the 200+ level.

Breadth Requirements: Creative and Cultural Representations (1)

Centre for Entrepreneurship

Introduction

The Centre for Entrepreneurship is home to innovation and entrepreneurship education and training activities. The knowledge and skills gained are useful whether

Centre for Entrepreneurship Courses

ENT200H1 - Introduction to Entrepreneurship

Hours: 24L

How do innovations become useful in society? What is needed for a company to use such innovations successfully? Why and how do individuals and companies commercialize new ideas or technologies? This course provides a broad introduction to entrepreneurship, entrepreneurial skills and the methodology used by entrepreneurs to start a new venture.

Prerequisite: 4.0 credits in any subject

Exclusion: RSM100H1

Recommended Preparation: The course is targeted at students from all disciplines (science, humanities, social sciences), who are interested in entrepreneurship.

Breadth Requirements: Society and its Institutions (3)

ENT391H1 - Exploring New Ventures

Hours: 24L/96P

This experiential learning course allows students to explore the inner working of new ventures or other innovative organizations. The majority of the course consists of activities applying entrepreneurial concepts

starting a new venture, or joining an existing organization, regardless of its size and stage of development. At the undergraduate level, the offerings include lecture-based and experiential-learning courses as well as a range of co-curricular programs and opportunities.

The undergraduate courses offered by the Centre are open to students from all disciplines.

Contact Information:

416-978-1457

entrepreneurship.artsci@utoronto.ca

<https://www.entrepreneurship.artsci.utoronto.ca>

within a local organization, with oversight from the Centre for Entrepreneurship. In-class activities facilitate the application of entrepreneurial tools to develop the students' entrepreneurial skills.

Prerequisite: 9.0 credits including [ENT200H1](#)/[RSM100H1](#)/[MGT100H1](#)

Exclusion: [JPM400Y1](#)

Recommended Preparation: The experiential learning activities are designed to accommodate students from all disciplines including science, social sciences and humanities.

Breadth Requirements: Society and its Institutions (3)

ENT392H1 - Creating New Ventures

Previous Course Number: ENT392Y1

Hours: 12L/48P

This experiential learning course allows students to explore the inner working of their new ventures. The majority of the course consists of activities applying entrepreneurial concepts within the student's own venture, with oversight from the Centre for Entrepreneurship. In-class activities facilitate the application of entrepreneurial tools to develop the students' entrepreneurial skills.

Prerequisite: 9.0 credits including [ENT200H1](#)/[RSM100H1](#)/[MGT100H1](#)

Exclusion: [ENT392Y1](#)

Recommended Preparation: The experiential learning activities accommodate students from all disciplines including science, social sciences and humanities.

Breadth Requirements: Society and its Institutions (3)

School of the Environment

Faculty List

Professor and Director

† S. Easterbrook, BSc, PhD

Associate Professor and Graduate Associate Director

TBD

Assistant Professor and Undergraduate Associate Director

M. Classens, BA, MA, PhD

Professors

† M. L. Diamond, MSc, MSc Eng, PhD

† J. Green, BA, MA, PhD

† W.S. Prudham, BA, BSc, MA, PhD

† J.B. Robinson, BA, MES, PhD

Associate Professors

† C. Abizaid, MA, PhD

† M. Franklin, BSc, MSc, PhD

† K. Neville, BSc, MEnvSci, PhD

† H. Peng, BSc, PhD

† N. Rollinson, BAT, MSc, PhD

† S.B. Scharper, BA, MA, PhD

C. Wiseman, BES, M. Nat.Res.Mgmt., Dr. Phil. Nat.

† D. Wunch, BSc, MSc, PhD

T. Yoreh, BA, MA, PhD

Assistant Professors

† H. Ibrahim, BA, MA, MSc, PhD

† J.A. Jakubiec, BSArch, MArch, PhD

† K Kirigia, BA, MSc, PhD

T. Kramarz, MA, MSc, PhD

† V. Leos Barajas, PhD

H. Morris, MSc, MA, PhD

R. Rasolofson, Maitrise, MSc, PhD, PhD

† R. Soden, BA, MA, PhD

Associate Professor, Teaching Stream

K. Ing, BSc, MSc

Assistant Professors, Teaching Stream

S. Appolloni, BA, BEd, MDiv, PhD

† N. Spiegelaar, MES, PhD

Senior Lecturers Emeriti

B. Savan, BSc, PhD

† Cross-appointed faculty

Introduction

The School of the Environment is an innovative interdisciplinary unit within the Faculty of Arts & Science; it brings together and leverages the enormous breadth of environmental teaching and research expertise throughout the Faculty. The School fosters opportunities for interdisciplinary research and scholarship in environment, spanning the sciences, social sciences and humanities.

Core Programs

The School offers core programs in two areas: Environmental Science BSc Major and Minor, and Environment Studies BA Major and Minor. These programs are ideally suited to be taken in conjunction with another program(s) in a related academic field. For example, the Environmental Science Major could be combined with a Major in Environment & Health, Environmental Ethics, Earth and Environmental Systems, Environmental Geography, Forest Conservation Science, Physical & Environmental Geography, Biomedical Toxicology, Chemistry, Physics, Biodiversity and Conservation Biology, or Environmental Biology, while the Environmental Studies Major could be combined with a complementary BA Major such as Political Science, Economics, Women and Gender Studies, Human Geography, Forest Conservation, Architecture, or BSc Major, such as Environmental Biology, Physics, or Forest Conservation Science. These programs of study provide students with a powerful combination of disciplinary depth and interdisciplinary breadth.

The School's Environmental Science BSc Major and Minor programs reflect the fact that most environmental issues are complex and involve aspects drawing from many different areas of science. These programs provide students with a breadth of knowledge spanning scientific disciplines, and the tools to understand and integrate scientific principles from across the physical and biological sciences, and across multiple spatial and temporal scales. At its core, environmental science is concerned with the scientific analysis and development of creative solutions to environmental problems. Students are exposed to disciplinary and interdisciplinary knowledge and research skills necessary to function as an environmental scientist.

The School's Environmental Studies BA Major and Minor are interdisciplinary programs intended for students interested in studying and working in an environmental area, primarily within the social sciences or humanities. These programs offer rigorous academic study of the economic, social, cultural and political forces that drive issues such as species extinction, loss of biodiversity, air and water pollution, and climate change. The interdisciplinary structure of the programs provides grounding in scientific literacy while advancing critical thinking skills that will help students to evaluate complex environmental problems and sustainable solutions for improved environmental health and well-being.

Environmental Science students who wish to have a foundation in Environmental Studies beyond the ENV221H1 and ENV222H1 core courses, are encouraged to consider adding the Minor in Environmental Studies to their Environmental Science Major. It is possible to double count a number of courses between the two programs.

Certificate in Sustainability

New to the Faculty of Arts & Science in 2021-22, and administered by the School of the Environment, the Certificate in Sustainability is part of the U of T Sustainability Scholar initiative, and is designed to complement any Arts & Science degree or discipline. Participating students will develop a sustainability-lens based in systems-thinking that can be used to approach the rest of their academic program and career path.

Collaborative Specialist, Major and Minor Programs

The School collaborates with other disciplines to offer three collaborative Science Specialist programs: Environment & Health; Environmental Geosciences; and Environment & Toxicology. Other collaborative offerings include Major programs in Environment & Health, and Environmental Ethics, as well as collaborative Minor programs in Environmental Ethics, Energy & Environment, and Environment & Behaviour. These programs combine the School's interdisciplinary core with a deliberately focused set of discipline-specific courses.

Directed Environmental Minor Programs

Environmental Minor programs are offered by a number of departments. Five of these Minors are in the sciences, and four are arts Minors. These programs are intended for students interested in acquiring a hierarchical body of environmental knowledge in a specific discipline.

These Minors are open to any student irrespective of program. As with any Minor, these programs can be combined with other programs of study (i.e., Minors and Majors) to meet the requirements for a degree. (See the Degree Requirements section of the Calendar for program requirement details).

General Program Information

All Science programs in the School include a strong First Year science component with core interdisciplinary science courses in subsequent years. Students intending to pursue Environmental Science or any of the Science Specialist programs are advised to choose First Year courses from among (BIO120H1, BIO130H1); (CHM135H1, CHM136H1)/CHM151Y1; MAT135H1/MAT136H1/MAT137Y1/MAT157Y1;

(PHY131H1, PHY132H1)/(PHY151H1, PHY152H1), and (JEG100H1, GGR101H1). Students should identify specific program first year course requirements as well as the prerequisites for EEB240H1; ENV237H1; ENV238H1; ENV316H1; ENV337H1; CHM210H1 when selecting specific First Year science courses.

Arts programs in the School build on a base of social science and humanities courses. Environmental Studies, as well as Environmental Ethics, do not require specific First Year courses. Students intending to follow arts programs in the area of environment are recommended to take ENV100H1, and might find it helpful to take ENV200H1 in first year, as well as to include some First Year course choices from the 100-level offerings in Anthropology, Biology, Economics, Geography, History, Philosophy, Political Science or Sociology.

Note: Majors and Specialists in School of the Environment programs are eligible for a number of School-based scholarships. Students in School minors are also eligible for some of these scholarships. (see <https://www.environment.utoronto.ca/undergraduate/current-students/scholarships-awards>)

Students interested in School of the Environment programs should refer to the Calendar program listings below and are encouraged to consult the School's website at <https://www.environment.utoronto.ca>. For further information about the School's programs and courses, please contact:

School of the Environment Undergraduate Associate Director (ug.director.env@utoronto.ca).

School of the Environment Undergraduate Student Advisor, David Powell, Room ES 1022, 33 Willcocks Street Wing, Earth Sciences Centre, 416-946-8100 or ug.office.env@utoronto.ca

Arts & Science Internship Program

Starting Fall 2024, students entering their second year of study who are enrolled in the following programs will be eligible to apply for the Arts & Science Internship Program. Details about ASIP, including eligibility requirements and application procedures, can be found [here](#). Students may also visit the [ASIP webpage](#) or contact the ELOS office at asip@utoronto.ca.

- Environmental Science Major
- Environmental Studies Major
- Environment & Health Specialist
- Environment & Health Major
- Environmental Ethics Major

Environmental Programs in Other Academic Units

Students should also be aware that numerous programs offered by other academic units have relevance to the study of the environment, and most are highly suitable for double majors with the School of the Environment programs. Students interested in environment-related courses of study should also review the following programs:

Biodiversity & Conservation Biology (Science program offered by the Department of Ecology & Evolutionary Biology)

(Details available at: <https://eeb.utoronto.ca/education/undergraduate/programs/>)

Students in the Biodiversity and Conservation Biology Major receive training in the relatively young, but already firmly established, synthetic fields of biodiversity and conservation biology. They will be equipped to aid in the response to what is perhaps humanity's most pressing challenge, the conservation of biological diversity. As ecologically responsible and informed citizens, they will appreciate the increasing complexity and uncertainty of the world in which we all live, and be in a position to make informed policy and decisions about sustainable development, global environmental change, control of invasive species, and the conservation of genetic diversity and ecosystem integrity.

Earth and Environmental Systems (Science program offered by the Department of Earth Sciences)

(Details available at: <https://www.es.utoronto.ca/programs/undergraduate/>)

The Earth and Environmental Systems Major takes a holistic approach to understanding how the Earth system works and how it has evolved over tens of millions to billions of years. This requires understanding the dynamics and interactions of all aspects of the system (solid Earth, ocean, atmosphere, and biosphere) and provides the larger context at a time when climate change, resource consumption and global pollution weigh heavily on people and societies.

Environmental Biology (Science program offered by the Department of Ecology & Evolutionary Biology)

(Details available at: <https://eeb.utoronto.ca/education/undergraduate/programs/>)

The Environmental Biology Major provides a broad background in biology that is essential to understand the impact of humans on other organisms and their environments. It provides students with an understanding of ecology, the diversity and function of living organisms, the physical and chemical environment, and the ways organisms interact with, and affect, ecosystem processes. Students are exposed to ecosystem management, issues related to environmental change, and the consequences of interactions between humans and the environment.

Environmental Geography (Arts program offered by the Department of Geography and Planning)

(See program details under Geography and Planning or at <https://www.geography.utoronto.ca/undergraduate/prospective-undergraduate-students/programs-study>)

These Specialist, Major and Minor programs can be taken in conjunction with either the School's Arts or Science programs for an Honours Degree. They focus on resource and environmental planning, environmental assessment, water resources, waste management and Canada's forests from the perspective of Geography.

Forestry (Arts or Science programs offered by Daniels Forestry in the Daniels Faculty of Architecture, Landscape & Design)

(See program details under Forest Conservation and Forest Biomaterials Science or at <https://academic.daniels.utoronto.ca/forestry/undergraduate-program/>)

These Specialist, Major and Minor programs can be taken in conjunction with the School's science or arts programs for an Honours degree. Core subjects include world forests, forest products in sustainable forestry, forest conservation practices, forest management and resource allocation, and forests and society. Other topics include biodiversity maintenance, ecological sustainability, protection of wildlife and their habitats, international policy, certification, intensive forest management, community management, forest health and forest fragmentation.

Physical & Environmental Geography (Science program offered by the Department of Geography and Planning)

(See program details under Geography and Planning or at <https://www.geography.utoronto.ca/undergraduate/prospective-undergraduate-students/programs-study>)

These Specialist and Major programs can be taken in conjunction with the School's science or arts programs for an Honours Degree. Core subjects include geomorphology, climatology, soil science and hydrology.

Other topics include biogeography, remote sensing, climate assessment, biogeochemistry and environmental contaminants modeling.

Core Programs

Environmental Science Major (Science Program) - ASMAJ1076

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed Courses

The following courses are required:

- [BIO120H1](#)
- [CHM135H1/ CHM151Y1](#)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Environmental Science Major program in the Summer after Year 2 and have completed a 0.5 credit of [ENV221H1](#) or [ENV222H1](#) and a 0.5 credit of [EEB240H1](#), [CHM210H1](#), [ENV237H1/ ENV238H1](#), or [ESS262H1](#) prior to ASIP entry.

Completion Requirements:

(8.0 credits)

First Year: [BIO120H1](#); [CHM135H1](#)(recommended)/ [CHM151Y1](#); 0.5 credit from [MAT135H1/ MAT137Y1/ MAT157Y1/ JMB170Y1](#)

Second Year (2.5 credits):

1. [ENV221H1](#)
2. [EEB240H1/ ENV234H1](#)
3. One of [CHM210H1](#) (recommended) or [ESS262H1](#)
4. [ENV237H1/ ENV238H1](#)*
- * [ENV238H1](#) is for students who have previously taken [PHY131H1/ PHY132H1/ PHY151H1/ PHY152H1](#)
5. [STA220H1/ STA288H1/ EEB225H1/ GGR270H1](#) or

other science courses providing training in statistics as approved by the Undergraduate Associate Director.

NOTE: students interested in taking EEB Field Courses (Group B) in third/fourth year are encouraged to take [BIO220H1](#) in second/third year.

Third Year (1.5 credits):

1. The other of [CHM210H1](#) or [ESS262H1](#) not taken in second year
2. [ENV337H1](#)
3. [ENV316H1](#)

Third/Fourth Year (2.0 credits):

1. 2.0 credits from among the courses in Group A, B, and C, with no more than 0.5 credit from Group C. At least 0.5 credit must be at the 300+ level

Group A: Environmental Science

[BIO220H1](#)*/ [CHM310H1/ CHM410H1/ CHM415H1/ EEB319H1/ EEB320H1/ EEB321H1/ EEB328H1/ EEB365H1/ EEB428H1/ EEB430H1/ EEB433H1/ EEB440H1/ EEB465H1/ ENV334H1/ ENV341H1/ ENV342H1/ ENV346H1/ ENV432H1/ ENV441H1/ ESS261H1/ ESS311H1/ ESS312H1/ ESS461H1/ ESS463H1/ GGR203H1/ GGR301H1/ GGR305H1/ GGR308H1/ GGR314H1/ GGR347H1/ GGR348H1/ GGR406H1/ GGR413H1/ JGA305H1/ PCL362H1/ PHY392H1](#)**/ [PHY492H1](#)**

Notes: * [BIO220H1](#) is required for all upper-year 300+ EEB series courses, with no exceptions. ** [PHY392H1](#) and [PHY492H1](#) include relevant environmental content, but prerequisites for these courses cannot be used towards Group A requirements.

Group B: Environmental Science-related Field Courses

[ANT330Y1/ ARH306Y1/ EEB403H1/ EEB405H1/ EEB406H1/ EEB407H1/ EEB410H1/ ENV336H1/ ENV395Y0/ ENV396H0/ ENV396Y0/ ESS234H1/ ESS410H1/ ESS450H1/ GGR390H1](#)

Note: * [BIO220H1](#) is required for all upper-year 300+ EEB series courses, with no exceptions.

Group C: Environmental Policy & Society (no more than 0.5 credit from Group C)

[ENV222H1/ \(ENV360H1/ ENV261H1\)/ ENV281H1/ ENV282H1/ ENV307H1/ ENV320H1/ ENV322H1/ ENV323H1/ ENV330H1/ ENV333H1/ ENV335H1/ ENV347H1/ ENV350H1/ ENV361H1/ ENV362H1/ ENV381H1/ ENV382H1/ ENV422H1/ ENV430H1/ ENV461H1/ ENV462H1/ FOR302H1](#)

Fourth Year (0.5 credit):

1. 0.5 credit from the following: [ENV432H1](#)*/ [ENV440H1/](#)

ENV452H1*

*Note that ENV432H1 requires one of EEB319H1/EEB321H1/EEB365H1/ENV334H1 as a prerequisite, and ENV452H1 requires one of ENV316H1/ENV334H1/ENV337H1 as a prerequisite.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

- Students combining the Environmental Science Major with a second BSc or BA Major, and who are also interested in obtaining a basic understanding of the social/political/policy aspects of environment, can add the Environmental Studies Minor. Some of the courses taken for the Environmental Science Major may be double counted for this Minor. Please contact the Undergraduate Student Advisor (see above) to learn more about this option.
- Daniels Students enrolled in this program may be able to fulfil up to 1.5 credits in requirement 3 from ARC courses. Consult the School of the Environment for more information.

Environmental Science Minor (Science Program) - ASMIN1555

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed Courses

The following courses are required:

- BIO120H1
- CHM135H1(recommended)/ CHM151Y1

Completion Requirements:

(4.0 credits)

First Year (1.5 credits):

1. BIO120H1; CHM135H1 (recommended)/ CHM151Y1;
0.5 credit from MAT135H1/ MAT137Y1/ MAT157Y1/
JMB170Y1

Higher Years (2.5 credits):

2. ENV221H1
3. 1.0 credit from CHM210H1, EEB240H1/ ENV234H1,
ENV237H1/ ENV238H1*, ESS262H1

4. ENV337H1

5. 0.5 credit from courses in Group A or B**

Notes

- * ENV238H1 is for students who have previously taken PHY131H1/ PHY132H1/ PHY151H1/ PHY152H1
- ** Students should verify the prerequisites for the courses listed under the groups below in advance of their course selection.
- BIO220H1 is required for all EEB 300+ level courses (Group A and B) and there are no exceptions.
- Daniels Students enrolled in this program may be able to fulfil up to 1.0 credit of elective courses from ARC courses. Consult the School of the Environment for more information

Group A: Environmental Science

CHM310H1/ CHM410H1/ CHM415H1/ EEB319H1/
EEB320H1/ EEB321H1/ EEB328H1/ EEB365H1/
EEB428H1/ EEB430H1/ EEB433H1/ EEB440H1/
EEB465H1/ ENV334H1/ ENV341H1/ ENV342H1/
ENV346H1/ ENV432H1/ ENV441H1/ ESS261H1/
ESS311H1/ ESS312H1/ ESS461H1/ ESS463H1/
GGR301H1/ GGR305H1/ GGR308H1/ GGR314H1/
GGR347H1/ GGR348H1/ GGR406H1/ GGR413H1/
JGA305H1/ PCL381H1/ PHY392H1*/ PHY492H1*

Notes: * PHY392H1 and PHY492H1 include relevant environmental content, but prerequisites for these courses cannot be used towards Group A requirements.

Group B: Environmental Science-related Field Courses

ANT330Y1/ ARH306Y1/ EEB403H1/ EEB405H1/
EEB406H1/ EEB407H1/ EEB410H1/ ENV316H1/
ENV336H1/ ENV395Y0/ ENV396H0/ ENV396Y0/
ESS234H1/ ESS410H1/ ESS450H1/ GGR390H1

Environmental Studies Major (Arts Program) - ASMAJ1254

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry

enrolment requirements. Students applying for Year 3 entry must have been admitted to the Environmental Studies Major program in the Summer after Year 2 and have completed 1.0 credit of ENV221H1, ENV222H1, ENV223H1, or ENV200H1 prior to ASIP entry.

Completion Requirements:

For more information, please email the School of the Environment's Undergraduate Student Advisor, David Powell, at ug.office.env@utoronto.ca.

(7.0 credits, including 2.5 credits at the 300+ level and a 0.5 credit at the 400-level)

First Year:

ENV100H1 is recommended but not required.

Higher Years:

1. ENV221H1, ENV222H1, ENV223H1, ENV338H1.

2. ENV200H1

3. 0.5 credit from the following Environmental Policy, Law & Society courses: ENV320H1, ENV322H1, ENV323H1, ENV347H1, ENV350H1, ENV422H1, JGE331H1.

4. 0.5 credit from among the following Environmental Thought & Ethics courses: ENV333H1, JGE321H1, CLA373H1, PHL273H1, WGS273H1.

5. One of (ENV421H1/ ENV421Y1)/ ENV440H1/ ENV451H1/ ENV461H1/ ENV463H1/ ENV465Y1.

6. An additional 3.0 credits from any combination of courses listed in the three groups below*, with no more than 1.0 credit from Group C: Environmental Science.

Note: If either ENV421Y1 or ENV465Y1 is taken for requirement 5 above, students need only take an additional 2.5 credits for this requirement.

*Students may choose to take these credits from courses across the three groups or within a particular group, depending on their interest.

Group A: Environmental Policy, Law & Society Courses

ANT346H1, ANT364H1, ANT371H1, ANT374H1, CSE342H1, ECO313H1, ECO314H1, ECO414H1, ENV261H1/ ENV360H1, ENV281H1, ENV282H1, ENV307H1, ENV320H1, ENV322H1, ENV323H1, ENV335H1, ENV347H1, ENV350H1, ENV361H1, ENV362H1, ENV381H1, ENV382H1, ENV397Y0, ENV411H1, ENV422H1, ENV462H1, ENV464H1, FOR302H1, FOR303H1, FOR310H1, GGR223H1, GGR310H1, GGR329H1, GGR332H1, GGR334H1, GGR338H1, GGR341H1, GGR349H1, GGR416H1, GGR418H1, GGR434H1, GGR433H1, GGR438H1,

HIS218H1, HIS300H1, HIS408H1, HPS307H1, HPS313H1, HPS316H1, HPS324H1, JGE321H1, JGE331H1, JGE481H1, JIG322H1, JIG440H1, POL205H1, POL384H1, POL413H1, RSM466H1, TRN312H1

Note: GGR223H1 is NOT a substitute for ENV222H1.

Group B: Environmental Thought & Ethics Courses

INS250H1, INS402H1, ANT368H1, ANT376H1, CLA373H1, CRE271H1, EAS479H1, ENV330H1, ENV333H1, ENV430H1, FAH446H1, FOR302H1, FOR303H1, GGR419H1, HPS316H1, JGE321H1, JIG322H1, JUG320H1, PHL273H1, PHL373H1, PSY435H1, RLG318H1, RLG345H1, WGS273H1, WGS442H1

Group C: Environmental Science Courses

EEB240H1/ ENV234H1, ENV262H1, ENV337H1, ENV341H1, ENV342H1, ENV395Y0, ENV396H0, ENV396Y0, ENV431H1, ENV441H1, FOR200H1, FOR201H1, FOR400Y1, FOR401H1, GGR272H1, GGR273H1, GGR314H1, GGR337H1, ESS205H1, JEH455H1

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Note:

- Daniels Students enrolled in this program may be able to fulfill up to 1.5 credits in requirement 6 from ARC courses. For more information, please email the School of the Environment's Undergraduate Student Advisor, David Powell, at ug.office.env@utoronto.ca.

Environmental Studies Minor (Arts Program) - ASMIN1254

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

For more information, please email the School of the Environment's Undergraduate Student Advisor, David Powell, at ug.office.env@utoronto.ca.

(4.0 credits, including 1.5 credits at the 300+ level)

First Year:

ENV100H1 is recommended but not required.

Higher Years:

1. ENV221H1, ENV222H1
2. ENV200H1
3. Additional 2.5 credits, of which a maximum 1.0 credit may be environmental courses offered by academic units other than the School of the Environment (from Group A below). The remainder must be selected from the following: ENV261H1/ ENV360H1, ENV281H1, ENV282H1, ENV307H1, ENV320H1, ENV322H1, ENV323H1, ENV330H1, JGE321H1, JGE331H1, ENV333H1, ENV335H1, ENV338H1, ENV347H1, ENV350H1, ENV361H1, ENV362H1, ENV381H1, ENV382H1, ENV395Y0, ENV396H0, ENV396Y0, ENV411H1*, ENV421Y1/ ENV421H1*, ENV422H1*, ENV430H1*, ENV431H1*, ENV440H1*, ENV461H1, ENV462H1, ENV463H1, ENV464H1, ENV465Y1, JGE481H1, PHL273H1.

*with permission of Undergraduate Associate Director

Group A

ANT364H1, ANT368H1, ANT450H1, CHM210H1, CLA373H1, CRE271H1, CSE342H1, EAS479H1, ECO313H1, ECO314H1, ECO414H1, EEB240H1/ ENV234H1, ENV262H1, ENV337H1, ENV341H1, ENV342H1, ENV397Y0, ENV441H1, FAH446H1, FOR200H1, FOR201H1, FOR302H1, FOR303H1, FOR310H1, FOR400Y1, FOR401H1, GGR223H1, GGR272H1, GGR273H1, GGR310H1, GGR314H1, GGR332H1, GGR334H1, GGR338H1, GGR349H1, GGR416H1, GGR418H1, GGR419H1, GGR438H1, GGR433H1, HIS218H1, HIS300H1, HIS408H1, HPS307H1, HPS313H1, HPS316H1, HPS324H1, INS250H1, INS402H1, JIG322H1, JIG440H1, PHL373H1, POL205H1, POL384H1, POL413H1, PSY435H1, RLG318H1, RLG345H1, RSM466H1, TRN312H1, WGS273H1, WGS442H1, other courses approved by School of the Environment.

Notes:

1. GGR223H1 is NOT a substitute for ENV222H1.
2. Daniels Students enrolled in this program may be able to fulfill up to 1.0 credit in requirement 3, Group A, from ARC courses. Consult the School of the Environment for more information.

Collaborative Programs

Environment & Health Specialist (Science Program) - ASSPE0365

From air pollution and water contamination to climate change, the anthropogenic impact on our environment has

significant repercussions on human health. A collaboration between the School of the Environment and Human Biology, the objective of the Environment and Health program is to provide students with instruction in fundamental biological sciences and to integrate a broad understanding of the environmental determinants of health.

For more information, please email the School of the Environment's Undergraduate Student Advisor, David Powell, at ug.office.env@utoronto.ca.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Environment & Health Major program in the Summer after Year 2 and have completed a 0.5 credit of ENV221H1 or ENV222H1 and a 0.5 credit of EEB240H1 or BIO220H1 prior to ASIP entry.

Completion Requirements:

(14.0 credits, including 4.0 credits at the 300+ level, of which 1.0 credit must be at the 400-level)

To help students proceed through the program, it is recommended that the first year BIO and CHM requirements are completed before entering the program.

Year 1:

1. BIO120H1, BIO130H1
2. (CHM135H1 and CHM136H1)/ CHM151Y1 (Only transfer credits that carry exclusions to CHM135H1 and/or CHM136H1 will be accepted)
3. 1.0 credit from: GGR100H1/ JEG100H1/ GGR101H1/ MAT135H1/ MAT136H1/ JMB170Y1/ PHY131H1/ PHY132H1/ PHY151H1/ PHY152H1/ PSY100H1

Year 2: Foundations of environment and health

4. BCH210H1/ CHM247H1

5. BIO220H1, BIO230H1/ BIO255H1

6. HMB265H1/ BIO260H1

7. ENV221H1, ENV222H1

8. EEB240H1/ ENV234H1, ENV337H1

9. PHL273H1

Year 3: Selected topics in environment and health with greater depth.

10. STA220H1/ STA288H1, STA221H1

11. BCH311H1/ CSB349H1/ LMP363H1/ NFS284H1/(PSL300H1 and PSL301H1)/ PSL350H1

12. JGE321H1, ENV341H1

13. 1.0 credit from: CHM210H1/ ENV342H1/ ENV441H1/ (only one from ESS261H1/ GGR203H1/ GGR303H1/ GGR314H1/ PHY231H1)

Years 3 & 4:

14. 1.5 credits from environment and health relevant courses: HMB302H1/ HMB303H1/ HMB312H1/ HMB314H1/ HMB322H1/ HMB390H1/ HMB496Y1/ HMB499Y1/ ANA300Y1/ ANA301H1/ BCH311H1/ CSB349H1/ BCH370H1/ CHM310H1/ CSB325H1/ CSB327H1/ CSB328H1/ CSB331H1/ CSB346H1/ CSB347H1/ CSB350H1/ CSB351Y1/ EEB318H1/ EEB319H1/ EEB321H1/ EEB328H1/ EEB362H1/ EEB375H1/ EEB428H1/ ENV315H1/ ENV316H1/ ENV336H1/ ENV342H1*/ ENV441H1*/ ESS311H1/ ESS312H1/ ESS425H1/ ESS463H1/ GGR303H1/ GGR305H1/ GGR347H1/ GGR348H1/ GGR372H1/ GGR433H1/ HIS423H1/ HST405H1/ IMM334Y1/ LMP301H1/ LMP363H1/ MGY377H1/ NFS382H1/ NFS386H1/ NFS488H1/ PCL381H1/ PSL350H1/ PSL372H1/ PSL420H1/ PSY435H1 or any other approved course for which the student has appropriate prerequisites. The 1.5 credits can be chosen to reflect the particular academic interests of each student. *If not taken for Requirement 13 above.

Year 4: Advanced topics in environment and health with emphasis on primary research and critical analysis

15. (ENV421Y1/ ENV421H1)/ ENV491Y1*/ ENV492H1*/ ENV493H1* or a minimum of 0.5 credit from any approved departmental or college independent research project (*the research topic for these courses must be related to environment and health)

16. JEH455H1

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

E&H Specialist Program Note:

- Not all non-ENV courses listed in requirement 14 above have priority enrolment for the Environment & Health Specialist. Students are responsible for checking the priority of courses, as well as meeting course prerequisites for courses they wish to take.

Environment & Toxicology Specialist (Science Program) - ASSPE0605

This program is jointly sponsored by the Department of Pharmacology and Toxicology and the School of the Environment. For additional information see "School of the Environment" (www.environment.utoronto.ca) or consult our website: www.pharmtox.utoronto.ca.

The Environment and Toxicology Specialist program is an interdisciplinary program which spans the social, physical and life sciences and integrates study of the effects of chemicals not only on the health and behaviour of human beings but on whole ecosystems as the adverse effects associated with therapeutic and environmental chemicals are discussed. This program emphasizes the application of knowledge of environmental toxicology and risk assessment and prepares students for a variety of job opportunities following its completion. Graduates of the Environment and Toxicology program may pursue careers in scientific research, environmental science, conservation science, governmental agencies, consulting agencies, and within chemical, manufacturing or agriculture industries. Students learn to integrate basic environmental and life science with particular aspects of clinical toxicology and related areas through lectures, tutorials, and laboratory and independent research project experience. The senior independent research project course enables students to gain valuable research experience while working under the supervision of an individual faculty member in either a laboratory-based or a non-laboratory-based setting.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enroll.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO120H1, BIO130H1

- (CHM135H1, CHM136H1)/ CHM151Y1
- 1.0 credit from (MAT135H1, MAT136H1)/
MAT137Y1/ MAT157Y1/ (PHY131H1,
PHY132H1)/(PHY151H1, PHY152H1)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in each course, or a combined grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Arts & Science Internship Program (ASIP)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Environment & Toxicology Specialist in the Summer after Year 2 and completion of PCL201H1 (with a minimum grade of 77%), PSL300H1 and PSL301H1.

Notes:

- The Environment and Toxicology Specialist cannot be combined with the Biomedical Toxicology Major or the Pharmacology Major.
- Students who wish to enroll in the program **after** their second year will be considered on a case-by-case basis. Successful completion of required prerequisite courses is required to enroll in further upper-level program courses.

Completion Requirements:

(14.0 credits, including 4.0 credits at the 300+level, 1.0 credit of which must be at the 400-level).

First Year: BIO120H1, BIO130H1, (CHM135H1, CHM136H1)/ CHM151Y1, and at least 1.0 credit from MAT135H1, MAT136H1, MAT137Y1, MAT157Y1, PHY131H1, PHY132H1, PHY151H1, PHY152H1

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second Year: BCH210H1, BIO230H1/ BIO255H1, ENV221H1, ENV222H1, PCL201H1, PSL300H1, PSL301H1 and CHM247H1 (see NOTE 1)

Third and Fourth Years:

BIO220H1, EEB240H1, JGE321H1, CHM210H1, PCL302H1, PCL381H1, PCL482H1, PCL483H1

One of: ENV341H1/ ENV337H1/ EEB320H1

One of: STA220H1/ STA221H1/ STA288H1/ EEB225H1 (see NOTE 2)

One of: ENV421Y1/ JPM400Y1/ PCL367H1/ PCL474Y1 (see NOTE 2)

At least 1.0 credit from: CHM310H1, EEB321H1, EEB365H1, EEB428H1, ENV441H1, ENV462H1, JPM300H1, LMP301H1, LMP363H1, PCL298H1, PCL362H1, PCL386H1, PCL477H1, PCL484H1, PCL490H1, PHY231H1 (see NOTE 3)

An Integrative, Inquiry-Based Activity Requirement must be satisfied.

The requirement for an integrative, inquiry-based and/or experiential activity must be met by completing at least one of the following: PCL297H1, PCL298H1, PCL367H1, PCL397Y0, ENV421H1, ENV421Y1, JPM400Y1, PCL474Y1. Students who complete the Arts & Science Internship Program (ASIP) stream or PEY Co-op will also meet this requirement.

Note: January 2022 was the last opportunity for Faculty of Arts & Science students to register for PEY Co-op. Students in Year 3 in the Fall/Winter 2021-2022 were the last group of Faculty of Arts & Science students eligible to participate in PEY Co-op. Students starting Year 2 in Fall 2021 or later are only eligible to participate in the [Arts & Science Internship Program](#) stream.

Notes:

1. PSL300H1 and PSL301H1 require MAT 100-level/ PHY 100-level courses.
2. PCL201H1, PCL302H1, and PCL367H1 are pre-requisites for students intending to take PCL474Y1. Students intending to take PCL474Y1 must obtain permission from the Undergraduate Student Advisor of the School of the Environment 3 months prior to the intended date of enrolment.

Students must also consult with the Department of Pharmacology and Toxicology at least 3 months prior to the intended date of enrolment.

Students wishing to take ENV421Y1 are advised to take the course during third year, due to scheduling conflicts with fourth year requirements.

- Students taking PCL477H1 must take BCH210H1 prior. **Students taking only PCL367H1 must take 1.5 credits from program electives requirement list of courses to ensure 14.0 program credits. Students may choose to take both PCL367H1 and ENV421Y1/ JPM400Y1/ PCL474Y1 and would then need to take only 0.5 credits from the program electives requirement list of courses to ensure 14.0 program credits.**

Environmental Geosciences Specialist (Science Program) - ASSPE1253

The Environmental Geosciences specialist program focusses on the interconnectedness within the Earth system (biosphere, hydrosphere, atmosphere, and geosphere) and core environmental geoscience subjects such as earth materials, aqueous geochemistry, hydrogeology, sedimentary geology, geomorphology, and biogeochemistry. This program aims at preparing students for a variety of careers in industry, government and academia that require knowledge of Earth and Environmental science such as environmental consulting and assessment, water quality, waste management and sustainability.

Jointly sponsored by the School of the Environment and the Department of Earth Sciences. For more information, please contact the Department of Earth Sciences, undergradchair@es.utoronto.ca. Students should note that under the Professional Geoscientists Act of 2000, individuals practicing Environmental Geoscience in Ontario require education that fulfills APGO knowledge requirements (see note below).

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(12.0 credits including at least 1.0 credit from 400-level courses)

1st year required courses (2.0 credits): CHM151Y1/(CHM135H1, CHM136H1), MAT135H1, PHY131H1/PHY151H1

1st year elective courses: 1.0 credit from MAT136H1, PHY132H1/ PHY152H1, ENV237H1/ ENV238H1, BIO120H1, CSC108H1/ CSC110Y1/ ESS245H1/ ESS345H1, JEG100H1

2nd year required courses (2.0 credits): ESS241H1, ESS223H1/ENV233H, ESS262H1, GGR201H1

2nd year elective courses: 1.0 credit from ESS224H1, ESS261H1, STA220H1/ GGR270H1, CHM210H1, MAT221H1/ MAT223H1; up to 0.5 credit of this requirement can be satisfied by taking one of the following ethics courses: IMC200H1/ INS201Y1/ PHL273H1/ PHL275H1

3rd and 4th year required courses (2.0 credits): ESS311H1, ESS312H1, ESS410H1, ESS461H1

3rd and 4th year elective courses: 4.0 credits from JGA305H1, ESS234H1, ESS313H1, ESS331H1, ESS361H1, ESS362H1, ESS363H1/ ESS462H1, GGR315H1, GGR390H1, ENV333H1, ESS431H1, ESS441H1, ESS445H1, ESS450H1, ESS463H1, ESS464H1, ESS465H1, ESS490H1, ESS491H1/ ESS492Y1

Other courses which might of interest: ESS391H1, ESS392Y1, ESS381H1, ESS481H1

If you plan to become APGO certified, we suggest you consider the following courses to fulfill minimum qualifications. This list comprises courses which are required for the specialist as well as suggested courses; together they fulfill groups 1A, 1B, 2A and 2B of the APGO requirements and add up to 13.5 credits:

Group 1A: CHM135H1, MAT135H1, PHY131H1

Group 1B: BIO120H1, MAT136H1, CHM136H1, PHY132H1, STA220H1, CSC108H1/ ESS245H1/ ESS345H1

Group 2A: ESS224H1, ESS241H1, ESS234H1, ESS331H1

Group 2B: ESS223H1/ENV233H, ESS312H1, GGR201H1, GGR315H1, JGA305H1

Group 2C: 4.5 of 200/300/400 level ESS or other allowable courses

All students, regardless of their career aspirations, are encouraged to talk to the undergraduate chair about their selection of electives.

Environment & Health Major (Science Program) - ASMAJ0365

From air pollution and water contamination to climate change, the anthropogenic impact on our environment has significant repercussions on human health. A collaboration between the School of the Environment and Human Biology, the objective of the Environment and Health program is to provide students with instruction in fundamental biological sciences and to integrate a broad understanding of the environmental determinants of health.

For more information, please email the School of the Environment's Undergraduate Student Advisor, David Powell, at ug.office.env@utoronto.ca.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Environment & Health Major program in the Summer after Year 2 and have completed a 0.5 credit of [ENV221H1](#) or [ENV222H1](#) and a 0.5 credit of [EEB240H1](#) or [BIO220H1](#) prior to ASIP entry.

Completion Requirements:

Required Courses (8.0 credits)

To help students proceed through the program, it is recommended that the first year BIO and CHM requirements are completed before entering the program.

Year 1:

1. [BIO120H1](#); [BIO130H1](#)

2. ([CHM135H1](#) and [CHM136H1](#))/ [CHM151Y1](#) (Only transfer credits that carry exclusions to [CHM136H1](#) and/or [CHM135H1](#) will be accepted)

3. [GGR100H1](#)/ [JEG100H1](#)/ [GGR101H1](#)/ [ESS102H1](#)/ [GLG102H1](#)/ [MAT135H1](#)/ [PHY131H1](#)/ [PSY100H1](#)

Year 2: Foundations in environment and health

4. [BCH210H1](#)/ [CHM247H1](#)

5. [BIO220H1](#); [BIO230H1](#)/ [BIO255H1](#)

6. [HMB265H1](#)/ [BIO260H1](#)

7. 1.0 credit from environmental core courses:
[ENV221H1](#)/ [ENV222H1](#)/ ([EEB240H1](#)/ [ENV234H1](#))/
[ENV337H1](#)

Year 3: Third year core courses

8. [ENV341H1](#)

9. [PSL300H1](#); [PSL301H1](#)

Years 3 or 4:

10. 0.5 credit from environment and health relevant courses: [HMB302H1](#)/ [HMB303H1](#)/ [HMB312H1](#)/ [HMB314H1](#)/ [HMB322H1](#)/ [HMB390H1](#)/ [HMB496Y1](#)/ [HMB499Y1](#)/ [ANA300Y1](#)/ [ANA301H1](#)/ [BCH311H1](#)/ [CSB349H1](#)/ [PSL350H1](#)/ [BCH370H1](#)/ [CHM310H1](#)/ [CSB325H1](#)/ [CSB327H1](#)/ [CSB328H1](#)/ [CSB331H1](#)/ [CSB346H1](#)/ [CSB347H1](#)/ [CSB350H1](#)/ [CSB351Y1](#)/ [EEB318H1](#)/ [EEB319H1](#)/ [EEB321H1](#)/ [EEB328H1](#)/ [EEB362H1](#)/ [EEB375H1](#)/ [EEB428H1](#)/ [ESS425H1](#)/ [ENV316H1](#)/ [ENV336H1](#)/ [ENV342H1](#)/ [ENV441H1](#)/ [GGR303H1](#)/ [GGR305H1](#)/ [GGR347H1](#)/ [GGR348H1](#)/ [GGR372H1](#)/ [GGR433H1](#)/ [HIS423H1](#)/ [HST405H1](#)/ [ESS311H1](#)/ [ESS312H1](#)/ [ESS463H1](#)/ [IMM334Y1](#)/ [LMP301H1](#)/ [LMP363H1](#)/ [MGY377H1](#)/ [NFS382H1](#)/ [NFS386H1](#)/ [NFS488H1](#)/ [PCL381H1](#)/ [PSL372H1](#)/ [PSL420H1](#)/ [PSY435H1](#)

Year 4: Environment & Health Capstone Course

11. [JEH455H1](#)

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\)](#) stream.

E&H Major Program Note:

- Not all non-ENV courses listed in requirement 10 above have priority enrolment for the Environment & Health Major. Students are responsible for checking the priority of courses, as well as meeting course prerequisites for courses they wish to take.

Environmental Ethics Major (Arts Program) - ASMAJ1107

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Environmental Ethics Major program in the Summer after Year 2 and have completed a 0.5 credit of [ENV221H1](#), [ENV222H1](#), or [PHL273H1](#) prior to ASIP entry.

Completion Requirements:

Jointly sponsored by the School of the Environment and the Department of Philosophy, this program explores how value judgments and worldviews affect environmental decision making. For more information, please email the School of the Environment's Undergraduate Student Advisor, David Powell, at ug.office.env@utoronto.ca.

(6.0 credits)

1. ([ENV221H1](#), [ENV222H1](#)), [PHL273H1](#), [JGE321H1](#)
2. 1.0 credit from [PHL373H1](#), [ENV333H1](#), [JGE331H1](#)
3. 0.5 credit from (([ENV421Y1](#)/ [ENV421H1](#))/ [ENV491Y1](#)/ [ENV492H1](#)/ [ENV493H1](#)), [ENV440H1](#), [ENV451H1](#)
4. 2.5 credits from Group A below. **Note:** Students taking [ENV421Y1](#) or [ENV491Y1](#) for requirement 3 only need to take 2.0 credits from Group A in requirement 4.

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\)](#) stream.

Group A:

[ANT450H1](#), [EAS479H1](#), [CRE271H1](#), [ECO105Y1](#), [ENV330H1](#), [ENV333H1](#), [ENV335H1](#), [ENV347H1](#), [ENV411H1](#), [ENV430H1](#), [ENV464H1](#), [ENV465Y1](#), [FAH446H1](#), [FOR302H1](#), [JIG322H1](#), [HIS218H1](#), [HPS202H1](#), [HPS307H1](#), [INS402H1](#), [JGE331H1](#), [PHL373H1](#), [PHL275H1](#), [PHL295H1](#), [PHL375H1](#), [PHL394H1](#), [PHL395H1](#), [PHL413H1](#), [PSY435H1](#), [RLG318H1](#), [RLG345H1](#), [RLG484H1](#), [WGS273H1](#), [WGS442H1](#)

Environment & Behaviour Minor (Science Program) - ASMIN1551

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Special Requirement

- Students must be enrolled in the Psychology Minor, Major or Specialist, to be considered for enrolment.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300+ level.)

For more information, please email the School of the Environment's Undergraduate Student Advisor, David Powell, at ug.office.env@utoronto.ca.

Higher Years:

1. [ENV221H1](#), [ENV222H1](#), [PSY220H1](#), [PSY335H1](#)/ [PSY435H1](#)
2. 1.0 credit from: [ENV333H1](#), [ENV335H1](#), [ENV361H1](#)/ [ENV381H1](#) (if [ENV381H1](#) taken in 2015-16 or 2016-17), [ENV464H1](#), [JGE321H1](#), [JGE331H1](#)
3. 1.0 credit from: [PSY320H1](#), [PSY321H1](#), [PSY327H1](#)/ [PSY427H1](#), [PSY336H1](#)

Environmental Ethics Minor (Arts Program) - ASMIN1107

Jointly sponsored by the School of the Environment and the Department of Philosophy, this program explores how value judgments and worldviews affect environmental decision making. For more information, please email the School of the Environment's Undergraduate Student Advisor, David Powell, at ug.office.env@utoronto.ca.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including include 1.0 credit at the 300+level)

1. [PHL273H1](#)
2. One of [PHL373H1](#), [ENV333H1](#); [JGE321H1](#), [JGE331H1](#)
3. [ENV221H1](#), [ENV222H1](#)

4. Additional 2.0 PHL credits, with at least a 0.5 credit at the 300+ level. It is recommended that one course be in the History of Philosophy and the other in the Problems of Philosophy, including a 0.5 credit in ethics.

Environment and Energy Minor (Science Program) - ASMIN1552

Environment and Energy (Science Program) Joint Program with the School of the Environment

Jointly sponsored by the School of the Environment and the Department of Geography, this interdisciplinary program addresses the scientific, technological, environmental and policy aspects of energy use and supply, with a focus on the reduction of environmental impacts.

Note that the four full course equivalents that constitute the Minor Program are those listed below under Higher Years. For more information, please email the School of the Environment's Undergraduate Student Advisor, David Powell, at ug.office.env@utoronto.ca.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year Courses: 1.0 credit from (MAT135H1 and MAT136H1)/ MAT137Y1, and 1.0 credit from CHM135H1, CHM136H1, CHM151Y1, PHY131H1, PHY132H1, PHY151H1, PHY152H1

All of: ENV221H1, ENV222H1/ GGR223H1 (1.0 credit)

All of: ENV346H1, ENV350H1, ENV450H1 (1.5 credits)

Any two of: GGR332H1/ ENV462H1, GGR310H1/ FOR310H1, GGR314H1, GGR347H1, GGR348H1 (1.0 credit)

Any one of: CHM210H1, CHM310H1, CHM415H1, ENV237H1, ENV238H1, FOR310H1*, GGR310H1*, FOR410H1, GGR203H1, GGR314H1*, GGR347H1*, GGR348H1*, HPS313H1, PHY231H1, PHY250H1 (* if not taken for the requirement immediately above) (0.5 credit)

Directed Minors

Environmental Biology Minor (Science Program) - ASMIN1390

Environmental science is an interdisciplinary field that integrates biological, chemical, and physical sciences to study human interactions with their environment. The **Environmental Biology Minor** program (4.0 credits) provides students an introduction to biology that is essential to understand the impact of humans on other organisms and their environments. It provides students with an understanding of ecology, the diversity and function of living organisms, the physical and chemical environment, and the ways organisms interact with, and affect, ecosystem processes. Students are exposed to ecosystem management, issues related to environmental change, and the consequences of interactions between humans and the environment.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits; must include at least 1.0 credit at the 300+ level)

1. 1.5 credits: BIO120H1, BIO220H1, EEB240H1

2. 0.5 credit in organismal biology: EEB266H1/ EEB267H1/ EEB268H1

3. 2.0 credits from the following groups:

A. core ecology and evolution (no more than 0.5 credit): EEB318H1, EEB319H1, EEB320H1, EEB321H1, EEB322H1, EEB324H1, EEB328H1

B. biological diversity (no more than 0.5 credit): EEB263H1, EEB266H1, EEB267H1, EEB268H1, EEB331H1, EEB340H1, EEB380H1, EEB382H1, EEB384H1, EEB386H1, EEB388H1

C. field courses (no more than 0.5 credit): EEB403H0, EEB403H1, EEB405H0, EEB405H1, EEB406H0, EEB406H1, EEB410H0, EEB410H1

D. no more than 0.5 credit from: BIO251H1, EEB255H1, EEB362H1, EEB365H1, EEB428H1, EEB433H1, EEB434H1; ENV432H1

Environmental Chemistry Minor (Science Program) - ASMIN2543

Consult Professor J. Murphy, Department of Chemistry

The Environmental Chemistry Minor program provides a balanced fundamental background in chemistry as well as an introduction to the major issues associated with environmental chemistry. This is achieved through a combination of introductory courses at the first and second-year levels, along with specific analytical and environmental chemistry courses in upper years.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300+ level)

1. (CHM135H1, CHM136H1)/ CHM151Y1
2. 1.0 credit from: CHM217H1, CHM220H1/
CHM222H1, (CHM236H1, CHM237H1)/
CHM238Y1, CHM247H1/ CHM249H1
3. CHM210H1
4. CHM310H1, and 1.0 credit from: CHM317H1,
CHM410H1, CHM415H1

Environmental Economics Minor (Arts Program) - ASMIN1438

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- ECO101H1 (63%) and ECO102H1 (63%)/ ECO105Y1 (80%)
- MAT133Y1 (63%)/(MAT135H1 (60%) and MAT136H1 (60%))/ MAT137Y1 (55%)/ MAT157Y1 (55%)

Completion Requirements:

(4.0 credits)

1. (ECO101H1 and ECO102H1)/ ECO105Y1
2. MAT133Y1/ (MAT135H1, MAT136H1)/ MAT137Y1/
MAT157Y1
3. ECO200Y1/ ECO204Y1/ ECO206Y1
4. 1.0 credit from 300+ level ECO courses, including at least 0.5 credit from ECO313H1/ ECO314H1

Note:

Students enrolled in this Minor program cannot be enrolled in any other program in Economics.

Environmental Geosciences Minor (Science Program) - ASMIN1253

Enrolment Requirements:

Admission to the Environmental Geosciences Minor has been administratively suspended as of 1 April 2015 and is no longer admitting students. Students presently enrolled in the minor will be able to complete the program requirements as described below.

Completion Requirements:

(4 full courses or their equivalent; must include at least one full-course equivalent at the 300+-level)

1. CHM136H1 (CHM138H1)
2. ENV233H1, ESS221H1, ESS222H1, ESS311H1,
ESS312H1, ESS410H1

Environmental Anthropology Minor (Arts Program) - ASMIN1291

Admission Requirements:

A program focused on understanding the diverse nature of interactions between humans and their environments, both in the past and in modern global society. Consult the Undergraduate Office, Department of Anthropology (416-978-6414).

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300+ level)

1. ANT100Y1/(ENV221H1 and ENV222H1/ GGR223H1)
2. ANT200Y1/ ARH100Y1/ (ANT204H1 and ANT207H1/0.5 credit 300-level Social Anthropology course from Anthropology Group C, or Subgroup C(i), C(ii))
3. 2.0 credits from: ANT315H1, ANT336H1, ANT346H1, ANT364H1, ANT366H1, ANT374H1, ANT376H1, ANT409H1, ANT410H1, ANT415Y1, ANT420H1, ANT430H1, ANT450H1, INS250H1, INS402H1

Note: ANT courses are those offered with the following prefixes: ANT, ARH, INS, JAA, JAL, JAH, JAR and JGA.

Group C: Society, Culture, and Language

ANT204H1, ANT205H1, ANT207H1, ANT208H1,
ANT210H1, ANT215H1, ANT299Y1, ANT322H1,
ANT324H1, ANT342H1, ANT343H1, ANT344H1,
ANT345H1, ANT346H1, ANT347H1, ANT348H1,
ANT352H1, ANT356H1, ANT357H1, ANT358H1,
ANT362H1, ANT364H1, ANT366H1, ANT370H1,
ANT372H1, ANT374H1, ANT376H1, ANT378H1,
ANT380H1, ANT382H1, ANT384H1, ANT385H1,
ANT386H1, ANT390H1, ANT426H1, ANT435H1,
ANT441H1, ANT450H1, ANT456H1, ANT457H1,
ANT459H1, ANT460H1, ANT462H1, ANT463H1,
ANT464H1, ANT465H1, ANT473H1, ANT474H1,
ANT475H1, ANT480H1, ANT484H1, ANT485H1,
ANT486H1, ANT488H1, ANT490Y1, ANT491Y1,
ANT491H1, ANT497Y1, ANT498H1, ANT499H1,
JAA377H1, JAH391Y0, JAH391H1, JAR301H1,
JNH350H1, AFR250Y1, NMC356H1, MCS225Y1

Note: ANT390H1 may be placed in a different Course Group depending on the topic, which will vary from year to year.

Subgroup C (i): (Society, Culture and Language - Area)

ANT327H1, ANT340H1, ANT341H1, ANT455H1,
ANT458H1, ANT472H1, ANT477H1, AFR298H1,
CAR316H1, NMC241H1

Subgroup C (ii): (Society, Culture and Language – Linguistic)

ANT253H1, ANT329H1, ANT425H1, ANT483H1,
ANT497Y1, ANT498H1, ANT499H1, JAL328H1,
JAL355H1, JAL401H1, SLA380H1

Note: Effective Fall 2021, courses associated with New College's African Studies and Caribbean Studies programs will have the new "AFR" and "CAR" designators respectively. In addition, courses associated with Victoria College's Material Culture and Semiotics program will have the new "MCS" designator.

Environmental Geography Minor (Arts Program) - ASMIN1252

A focus on the human-environment nexus is most explicit in these programs. Students learn about the social, spatial, and biophysical processes that shape society's relationship to nature, management of resources, and contemporary environmental change. These programs appeal to non-science students who seek an environmental program that allows them to learn more about the natural processes that interact with social factors in shaping environments. These programs offer training in quantitative and qualitative research methods, including GIS and Remote Sensing.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year Geography Courses: Any course (0.5 credit) from GGR107H1 (recommended), JEG100H1, GGR101H1, GGR112H1, GGR124H1, GGR172H1, GGR196H1, GGR197H1, GGR198H1, GGR199H1. 200/300-level GGR courses may also be used to meet this requirement. Contact the Undergraduate Administrator to update your program.

Core Course: All (0.5 credit) of GGR223H1

Physical and Environmental Geography Course: Any course (0.5 credit) from GGR201H1, GGR203H1, GGR205H1, GGR206H1, GGR305H1, GGR308H1, GGR314H1, GGR347H1, GGR348H1, ENV200H1, ENV234H1

Applications: Any 5 courses (2.5 credits) from Group A; up to 1.0 credit can be from Group B. Up to a 0.5 credit can be used from GGR493Y1, based on suitability of placement for this program, and approved by department.

Note: At least 1.0 credit must be 300/400-level courses.

Group A (Environmental Geography Courses):

GGR201H1, GGR203H1, GGR205H1, GGR206H1,
GGR223H1, GGR270H1, GGR271H1, GGR272H1,
GGR273H1, GGR274H1, GGR301H1, GGR305H1,
GGR308H1, GGR310H1, GGR314H1, GGR323H1,
GGR329H1, GGR332H1, GGR334H1, GGR315H1/
GGR337H1, GGR338H1, GGR340H1, GGR341H1,
GGR347H1, GGR348H1, GGR349H1, GGE372H1,
GGR373H1, GGR386H1, GGR387H1, GGR388H1,

GGR401H1, GGR405H1, GGR406H1, GGR413H1, GGR414H1/ GGR415H1, GGR416H1, GGR418H1, GGR419H1, GGR434H1, GGR438H1, GGR481H1, GGR491Y1, GGR492H1, GGR497H1, GGR498H1, JGE321H1, JGE331H1, JIG322H1, JIG440H1, JUG320H1

Group B (School of the Environment Courses):
ENV200H1, ENV234H1, ENV307H1, ENV323H1, ENV333H1, ENV335H1, ENV350H1, ENV395Y0, ENV396Y0, ENV422H1

Physical and Environmental Geography Minor (Science Program) - ASMIN2030

Physical and Environmental Geography offers science-based programs for students interested in an integrative approach to understanding the earth's biotic and abiotic systems, including their spatial dynamics and the ways they are altered by human action. The programs provide a foundation in the subfields of climatology, biogeography, hydrology, and geomorphology. Students gain practical experience in lab and field settings. Technical skills taught also include data analysis, geospatial analytical tools, including GIS and Remote Sensing.

Enrolment Requirements:

Enrolment in the Physical and Environmental Geography Minor will be administratively suspended as of January 31, 2024 and students will no longer be able to enrol in the program. Students presently enrolled in the Minor will be able to complete the program requirements as described below. Students who are not enrolled in this program but are interested in "Physical and Environmental Geography" programs are encouraged to consider the Environmental Geography and/or Human Geography Programs in the Department of Geography and Planning and are strongly recommended to consult with the Department of Geography and Planning for advising.

Completion Requirements:

First Year Geography Courses: Any 2 courses (1.0 credit) from JEG100H1 (recommended), GGR101H1, GGR107H1, GGR112H1, GGR124H1, GGR196H1, GGR197H1, GGR198H1, GGR199H1

Core Courses: Any 2 courses (1.0 credit) from GGR201H1, GGR203H1, GGR205H1, GGR206H1

Methods Courses: Any 2 courses (1.0 credit) from GGR270H1, GGR272H1, GGR390H1

Applications: Any 2 courses (1.0 credit) from:

- Hydrology/GIS/Remote Sensing: GGR206H1, GGR273H1, GGR274H1, GGR315H1/ GGR337H1, GGR373H1, GGR375H1, GGR386H1, GGR413H1, GGR414H1/ GGR415H1, GGR462H1
- Climatology/Energy: GGR203H1, GGR314H1, GGR347H1, GGR348H1
- Geomorphology: GGR201H1, GGR301H1, GGR406H1
- Biogeography: GGR205H1, GGR305H1, GGR308H1, ESS361H1, ESS363H1, ESS461H1, ESS462H1

No more than one (0.5) of GGR273H1, GGR274H1, GGR373H1, GGR375H1, GGR386H1. At least one Applications course (0.5 credit) must be 300-level or higher. Up to one 0.5 credit can be used from GGR493Y1, based on suitability of placement for this program, and approved by department.

Total credits: 4.0

Geographic Information Systems Minor (Arts Program) - ASMIN0305

The GIS program covers the on theoretical, technical and applied foundations for geographic information systems. Students learn methods for spatial data production, analysis and presentation using computer cartography, spatial analysis, remote sensing, and geovisualization. Problem solving and project design are emphasized in upper level courses, as students apply techniques to answer specific geographic questions. The GIS program is structured to provide a stand-alone minor for students in Geography and other disciplines seeking complementary skills in spatial analysis (e.g., field biology, archaeology).

Note: Students combining this program with a Specialist/Major sponsored by the Department of Geography will normally be allowed to count only 1.5 (of the 4.0) credits towards both programs.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year Geography Courses: Any 2 courses (1.0 credit) from JEG100H1, GGR101H1, GGR107H1, GGR112H1, GGR124H1, GGR172H1, GGR196H1, GGR197H1, GGR198H1, GGR199H1. 200/300-level GGR courses

may also be used to meet this requirement. Contact the Undergraduate Administrator to update your program.

Methods & Core Courses: All (2.0 credits) of GGR270H1, GGR272H1, GGR273H1, GGR373H1

Applications: Any 2 courses (1.0 credit) from GGR225H1, GGR274H1, GGR315H1/ GGR337H1, GGR372H1, GGR375H1, GGR376H1, GGR377H1, GGR386H1, GGR413H1, GGR414H1/ GGR415H1, GGR462H1, GGR472H1, GGR473H1. Up to 0.5 credit can be used from GGR493Y1, based on suitability of placement for this program, and approval by department. Up to 0.5 credit from GGR491Y1, GGR492H1, GGR497H1, GGR498H1, and GGR499H1 based on suitability of research topic for this program, and approval by department.

Note: At least 1.0 credit must be 300/400-level courses

Data Science in the Social Sciences

Geographic Information Systems Minor (Arts Program) - ASMIN0305

The GIS program covers the on theoretical, technical and applied foundations for geographic information systems. Students learn methods for spatial data production, analysis and presentation using computer cartography, spatial analysis, remote sensing, and geovisualization. Problem solving and project design are emphasized in upper level courses, as students apply techniques to answer specific geographic questions. The GIS program is structured to provide a stand-alone minor for students in Geography and other disciplines seeking complementary skills in spatial analysis (e.g., field biology, archaeology).

Note: Students combining this program with a Specialist/Major sponsored by the Department of Geography will normally be allowed to count only 1.5 (of the 4.0) credits towards both programs.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year Geography Courses: Any 2 courses (1.0 credit) from JEG100H1, GGR101H1, GGR107H1, GGR112H1, GGR124H1, GGR172H1, GGR196H1, GGR197H1, GGR198H1, GGR199H1. 200/300-level GGR courses

may also be used to meet this requirement. Contact the Undergraduate Administrator to update your program.

Methods & Core Courses: All (2.0 credits) of GGR270H1, GGR272H1, GGR273H1, GGR373H1

Applications: Any 2 courses (1.0 credit) from GGR225H1, GGR274H1, GGR315H1/ GGR337H1, GGR372H1, GGR375H1, GGR376H1, GGR377H1, GGR386H1, GGR413H1, GGR414H1/ GGR415H1, GGR462H1, GGR472H1, GGR473H1. Up to 0.5 credit can be used from GGR493Y1, based on suitability of placement for this program, and approval by department. Up to 0.5 credit from GGR491Y1, GGR492H1, GGR497H1, GGR498H1, and GGR499H1 based on suitability of research topic for this program, and approval by department.

Note: At least 1.0 credit must be 300/400-level courses

Data Science in the Life Sciences

Environment & Toxicology Specialist (Science Program) - ASSPE0605

This program is jointly sponsored by the Department of Pharmacology and Toxicology and the School of the Environment. For additional information see "School of the Environment" (www.environment.utoronto.ca) or consult our website: www.pharmtox.utoronto.ca.

The Environment and Toxicology Specialist program is an interdisciplinary program which spans the social, physical and life sciences and integrates study of the effects of chemicals not only on the health and behaviour of human beings but on whole ecosystems as the adverse effects associated with therapeutic and environmental chemicals are discussed. This program emphasizes the application of knowledge of environmental toxicology and risk assessment and prepares students for a variety of job opportunities following its completion. Graduates of the Environment and Toxicology program may pursue careers in scientific research, environmental science, conservation science, governmental agencies, consulting agencies, and within chemical, manufacturing or agriculture industries. Students learn to integrate basic environmental and life science with particular aspects of clinical toxicology and related areas through lectures, tutorials, and laboratory and independent research project experience. The senior independent research project course enables students to gain valuable research experience while working under the supervision of an individual faculty member in either a laboratory-based or a non-laboratory-based setting.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enroll.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO120H1, BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- 1.0 credit from (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1/ (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in each course, or a combined grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Arts & Science Internship Program (ASIP)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Environment & Toxicology Specialist in the Summer after Year 2 and completion of PCL201H1 (with a minimum grade of 77%), PSL300H1 and PSL301H1.

Notes:

- The Environment and Toxicology Specialist cannot be combined with the Biomedical Toxicology Major or the Pharmacology Major.
- Students who wish to enroll in the program **after** their second year will be considered on a case-by-case basis. Successful completion of required prerequisite courses is required to enroll in further upper-level program courses.

Completion Requirements:

(14.0 credits, including 4.0 credits at the 300+level, 1.0 credit of which must be at the 400-level).

First Year: BIO120H1, BIO130H1, (CHM135H1, CHM136H1)/ CHM151Y1, and at least 1.0 credit from MAT135H1, MAT136H1, MAT137Y1, MAT157Y1, PHY131H1, PHY132H1, PHY151H1, PHY152H1

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second Year: BCH210H1, BIO230H1/ BIO255H1, ENV221H1, ENV222H1, PCL201H1, PSL300H1, PSL301H1 and CHM247H1 (see NOTE 1)

Third and Fourth Years:

BIO220H1, EEB240H1, JGE321H1, CHM210H1, PCL302H1, PCL381H1, PCL482H1, PCL483H1

One of: ENV341H1/ ENV337H1/ EEB320H1

One of: STA220H1/ STA221H1/ STA288H1/ EEB225H1 (see NOTE 2)

One of: ENV421Y1/ JPM400Y1/ PCL367H1/ PCL474Y1 (see NOTE 2)

At least 1.0 credit from: CHM310H1, EEB321H1, EEB365H1, EEB428H1, ENV441H1, ENV462H1, JPM300H1, LMP301H1, LMP363H1, PCL298H1, PCL362H1, PCL386H1, PCL477H1, PCL484H1, PCL490H1, PHY231H1 (see NOTE 3)

An Integrative, Inquiry-Based Activity Requirement must be satisfied.

The requirement for an integrative, inquiry-based and/or experiential activity must be met by completing at least one of the following: PCL297H1, PCL298H1, PCL367H1, PCL397Y0, ENV421H1, ENV421Y1, JPM400Y1, PCL474Y1. Students who complete the Arts & Science Internship Program (ASIP) stream or PEY Co-op will also meet this requirement.

Note: January 2022 was the last opportunity for Faculty of Arts & Science students to register for PEY Co-op. Students in Year 3 in the Fall/Winter 2021-2022 were the last group of Faculty of Arts & Science students eligible to participate in PEY Co-op. Students starting Year 2 in Fall 2021 or later are only eligible to participate in the [Arts & Science Internship Program](#) stream.

Notes:

1. PSL300H1 and PSL301H1 require MAT 100-level/ PHY 100-level courses.
2. PCL201H1, PCL302H1, and PCL367H1 are pre-requisites for students intending to take PCL474Y1. Students intending to take PCL474Y1 must obtain permission from the Undergraduate Student Advisor of the School of the Environment 3 months prior to the intended date of enrolment. Students must also consult with the Department of Pharmacology and Toxicology at least 3 months prior to the intended date of enrolment. **Students wishing to take ENV421Y1 are advised to take the course during third year, due to scheduling conflicts with fourth year requirements.**
3. Students taking PCL477H1 must take BCH210H1 prior. **Students taking only PCL367H1 must take 1.5 credits from program electives requirement list of courses to ensure 14.0 program credits. Students may choose to take both PCL367H1 and ENV421Y1/ JPM400Y1/ PCL474Y1 and would then need to take only 0.5 credits from the program electives requirement list of courses to ensure 14.0 program credits.**

Certificate

Certificate in Sustainability (U of T Sustainability Scholar) - ASCER1500

The Certificate in Sustainability is part of the U of T Sustainability Scholar initiative, and is designed to complement any Arts & Science degree or discipline. Participating students will develop a sustainability-lens based in systems-thinking that can be used to approach the rest of their academic program and career path. The Certificate requires students to take a foundational course (ENV222H1); three electives drawn from a curated list of 42 half courses from 19 different units across the Faculty of Arts & Science; and a choice of capstone courses. Elective courses draw connections between multiple dimensions of sustainability (environmental, social, political, ethical, cultural, and economic).

Enrolment Requirements:

This is an open enrolment Certificate. A student who has completed 4.0 credits may enrol in the Certificate.

Completion Requirements:

(2.5 credits)

Foundations Course (0.5 credit):

- ENV222H1

Elective Courses (1.5 credits):

1.5 credits, chosen from at least two of the four clusters below:

- Cluster 1 - Environment/Ecology/Climate: ENV221H1, ENV200H1, ESS205H1, EEB208H1, INS250H1, HIS218H1, INS240Y1, ENV322H1, GGR314H1
- Cluster 2 - Equity/Ethics/Culture: VIC271H1/ CRE271H1, WGS273H1, PHL273H1, ANT204H1, HPS200H1, NEW240H1/ CSE240H1, JIG322H1, ENV333H1, FOR302H1, TRN312H1, PHL373H1, ANT366H1
- Cluster 3 - Economics/Development/Resources: CAS202H1, GGR223H1, ENV261H1/ ENV360H1, POL205H1, GGR334H1, FOR303H1, JGE331H1, POL384H1, ENV307H1, TRN350H1, ECO313H1, ENV341H1
- Cluster 4 - Food/Health/Wellbeing: ENV463H1, BIO220H1, NFS284H1, CSB202H1, VIC326H1/ MCS326H1, GGR329H1, INS355H1, WGS367H1, ENV341H1, NEW342H1/ CSE342H1

Note: One 0.5 credit course at the 300- or 400-level not listed in the above clusters may count towards the elective requirement through a nomination process. Students must submit a [nomination package](#) to the Undergraduate Associate Director of the School of the Environment including: (1) the relevant cluster; (2) the course code and description; (3) the course syllabus (for completed courses); (4) a brief rationale (500 words max) addressing why this course belongs to the relevant cluster, how it addresses multiple dimensions of sustainability (environmental, social, political, ethical, cultural, or economic), and how it satisfies a gap in the student's Certificate learning objectives. Nominations for completed courses must be made at least one semester before graduation. A nomination for a course the student has not yet taken must be submitted at least one semester in advance.

Capstone Course (0.5 credit):

- 0.5 credit from: ENV411H1, ENV421Y1, ENV461H1

Note: Effective Fall 2021, courses associated with New College's Critical Studies in Equity and Solidarity program will have the new "CSE" designator. In addition, courses associated with Victoria College's Creative Expression and Society, and Material Culture and Semiotics programs

will have the new "CRE" and "MCS" designators respectively.

NOTE: the Certificate in Sustainability (ASCER1500) is open to students pursuing a degree in the Faculty of Arts & Science. Students pursuing a degree in the Daniels Faculty of Architecture, Landscape and Design should enrol in the Certificate in Sustainability of the Built Environment (AHCERSUSP).

Lab Materials Fee

Some courses in this department have a mandatory Lab Materials Fee to cover non-reusable materials. The fee for

School of the Environment Courses

ENV100H1 - Introduction to Environmental Studies

Hours: 24L

An investigation of the relationship between human beings and their natural and built environments. This interdisciplinary course will draw from the sciences, social sciences and the humanities to explore major social, cultural, economic, regulatory, ethical, ecological and technological aspects of environmental issues.

Breadth Requirements: Society and its Institutions (3)

ENV101H1 - Confronting the Climate Crisis

Hours: 24L

This course is a comprehensive, interdisciplinary introduction to the climate crisis, suitable for any undergraduate student at U of T. The course examines the climate crisis from scientific, social, economic, political, and cultural perspectives, from the physical science basis through to the choices we now face to stabilize the climate system. The course uses a mixture of lectures, hands-on activities, group projects, online discussion, and guest speakers to give students a deeper understanding of climate change as a complex, interconnected set of problems, while equipping them with a framework to evaluate the choices we face as a society, and to cultivate a culture of hope in the face of a challenging future.

each such course is given below in the course description, and will be included on the student's invoice on ACORN.

NOTE

Many ENV courses are limited in enrolment and require specific prerequisites (check the online Arts & Science Calendar or [Timetable](#) for course prerequisites). Preference is given to students meeting the ACORN deadlines.

Exclusion: [ENV194H1](#)

Breadth Requirements: Society and its Institutions (3)

ENV194H1 - Topics in Climate Change

Hours: 24S

In this class we will discuss the underlying science of the climate system and also explore how this information is communicated effectively. Restricted to first-year students. Not eligible for CR/NCR option.

ENV195H1 - The Sustainability Transition

Hours: 24S

Can you imagine a sustainable future? What would it look like? How can we get there? We are often bombarded by negative images about our future and the future of the planet. In this seminar class we will explore what a sustainable world might look like and ways that we can get there. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ENV196H1 - Environment, Culture and Film

Hours: 36S

This first-year foundation course will introduce students to the scope and seriousness of some of current ecological concerns, as well as some core principles and concepts in the field of the intersection of environment and culture, through the lens of feature films. Through journal

reflections, class discussions and guided critical thinking exercises, and a paper, students will be able to build confidence and enthusiasm for further study in environmental studies, within a small seminar setting. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

ENV197H1 - Idleness and the Environment: What Does Sustainable Work Mean?

Previous Course Number: ENV198H1
Hours: 24S

In a fast-paced, high-tech world—and one that must rapidly decarbonize to address the climate crisis—the relationship between labour and environment is rapidly changing. This course explores the intersection of work and the environment, considering how ideas about leisure and idleness might offer new pathways for a more sustainable future. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ENV198H1 - Environment & Mental Wellness

Hours: 24S

This foundations course is an introduction to Environmental Psychology and related disciplines. We will examine the mutual relationship between the human psyche and the environment, with a focus on mental wellness. Topics will include: psycho-evolutionary environments, place attachment and identity, neurological toxins and environmental health, the modern period, cultural perceptions on nature-psyche, climate anxiety and ecological grief, nature connectedness and restorative environments. As a foundations course, students will develop key academic skills such as academic literacy, communication and application, interdisciplinary critical thinking, as well as creative problem solving. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

ENV199H1 - Debating & Understanding Current Environmental Issues

Previous Course Number: SII199H1 LEC0201
Hours: 2L

The course examines current environmental issues for which there is no easy answer or consensus position. For instance, to help solve climate change should we generate more electricity from nuclear power-plants, which have no greenhouse gas emissions? Or instead, should we phase out nuclear plants because of possible accidents, costs and radioactive wastes? The seminar examines the scientific and political aspects of such issues and debates the pros and cons of each. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ENV200H1 - Assessing Global Change: Science and the Environment

Hours: 24L/4T

The perspective which scientists bring to the understanding and resolution of environmental concerns having global implications: atmospheric systems and climate change, the biosphere and conservation of biodiversity.

This living things and their environment breadth course is intended to fulfill the environmental literacy requirement for students in the BA programs of the School of the Environment or the living things and their environment breadth course requirement for Commerce, Humanities and Social Science students

Exclusion: BIO120H1, EEB208H1

Breadth Requirements: Living Things and Their Environment (4)

ENV221H1 - Multidisciplinary Perspectives on Environment

Hours: 24L/4T

One of two foundation courses for the School's undergraduate program. Introduces students to ways in which different disciplines contribute to our understanding of environment. Instructors and guest lecturers are drawn from the sciences, social sciences and the humanities and will present subject matter, assumptions, conceptualizations and methodologies of their disciplines.

Exclusion: TRN140Y1, TRN141Y1

ENV222H1 - Pathways to Sustainability: An Interdisciplinary Approach

Hours: 24L/12T

ENV222H1 explores the concept and practice of sustainability by integrating scientific, technological, economic, political, psychological, historical, and ethical perspectives. The course begins by analyzing the challenges posed by the ecological crisis, including its historical roots. It then goes on to explore and evaluate a variety of approaches, strategies, and actions—at a personal, local, national, and global scale—that could move us towards authentic sustainability.

Exclusion: TRN140Y1, TRN141Y1

Breadth Requirements: Society and its Institutions (3)

ENV223H1 - Fundamental Environmental Skills

Hours: 24L

The practical, interdisciplinary and controversial nature of environmental issues, as well as the uncertainty that surrounds measures to address them demand mastery of a particular range of skills by environmental students. This course teaches the fundamental research, analysis and presentation skills required for effective environmental work. This course is for students enrolled in the Environmental Studies Major program, or permission of the Undergraduate Associate Director.

Prerequisite: Completion of 4.0 credits

Exclusion: GGR271H1

ENV237H1 - Physics of the Changing Environment A

Hours: 24L/24P

The course will cover basic physics of environmental processes and of measurement techniques in the atmosphere, the ocean, lake-land-forest systems, and other biological systems. It will place its work in the context of climate change and other aspects of environmental change. This course is solely intended for students who have NOT completed a previous first year physics core course, who are in one of the following programs: Environmental Science Major or Minor, Environmental Geosciences Specialist or Earth and Environmental Systems Major.

Prerequisite: MAT135H1/ MAT136H1/ MAT137Y1/ MAT157Y1/ JMB170Y1, CHM136H1/ CHM138H1/ CHM135H1/ CHM139H1/ CHM151Y1

Exclusion: ENV238H1, PHY131H1/ PHY132H1/ PHY151H1/ PHY152H1

Recommended Preparation: Any high school physics

Breadth Requirements: The Physical and Mathematical Universes (5)

ENV238H1 - Physics of the Changing Environment B

Hours: 24L/24P

The course will cover basic physics of environmental processes and of measurement techniques in the atmosphere, the ocean, lake-land-forest systems, and other biological systems. It will place its work in the context of climate change and other aspects of environmental change. This course is solely intended for students who have completed a previous first year physics core course, who are in one of the following programs: Environmental Science Major or Minor, Environmental Geosciences Specialist or Earth and Environmental Systems Major.

Prerequisite: MAT135H1/ MAT136H1/ MAT137Y1/ MAT157Y1/ JMB170Y1, CHM136H1/ CHM138H1/ CHM135H1/ CHM139H1/ CHM151Y1, PHY131H1/ PHY132H1/ PHY151H1/ PHY152H1

Exclusion: ENV237H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ENV262H1 - The Science of Energy in the Environment

Hours: 24L/12T

Energy is a fundamental organizing principle of Nature. It has a central role in the origin and evolution of the universe, and is the basis of the ecosystem of the Earth and of technology and the world economy. This course will explore the science of energy in all its forms. (ENV262H1 is primarily intended as a Breadth Requirement course for students in the Humanities and Social Sciences.)

Exclusion: ENV346H1, (PHY131H1, PHY132H1, PHY151H1, PHY152H1 or equivalent, taken previously or concurrently)

Breadth Requirements: The Physical and Mathematical Universes (5)

ENV281H1 - Special Topics in Environment

Hours: 24L

Special topics course designed for students in School of the Environment programs. Content in any given year depends on instructor. See [School of the Environment website](#) for more details.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

ENV282H1 - Special Topics in the Environment

Hours: 24L

Special topics course designed for students in School of the Environment programs. Content in any given year depends on instructor. See [School of the Environment website](#) for more details.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

ENV299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

ENV307H1 - Urban Sustainability

Hours: 18L/18P

This course critically examines the concept of urban sustainability in theory and application. Case studies of ongoing urban sustainability programs in the developed and developing world help students assess the successes and failures of these programs. The course also examines the current state of research and implementation efforts toward urban sustainability. Toronto's urban sustainability and sustainable needs will be investigated through the use of Geographic Information Systems (GIS) during the course (previous experience with GIS is not required).

Prerequisite: Completion of 8.0 credits including [ENV221H1](#)/ [ENV222H1](#). Students who do not meet the

prerequisites are encouraged to contact the Undergraduate Associate Director.

Recommended Preparation: An environmental studies half course.

Breadth Requirements: Society and its Institutions (3)

ENV316H1 - Laboratory and Field Methods in Environmental Science

Hours: 12T/36P

This course focuses on methods of sampling and analyzing natural air, water and solid Earth materials for physical, chemical and biological properties that are relevant to current environmental issues. It will integrate approaches from chemistry, physics, geology and biology, and cover techniques in field sampling, laboratory analyses and analyses of large environmental data sets. Basic concepts related to quality control will be emphasized throughout the course: sample collection and storage methods, calibration of field and lab instruments, analyses in complex matrices, errors (accuracy, precision), and detection limits. This course is for students enrolled in the Environmental Science Major program, or permission of the Undergraduate Associate Director. A fee of \$26 will be charged for lab supplies, lab instrument charges and technical services.

Prerequisite: [EEB240H1](#)/ [ENV234H1](#), one of [CHM210H1](#) (recommended) or [ENV237H1](#)/ [ENV238H1](#), one of [STA220H1](#)/ [STA288H1](#)/ [EEB225H1](#)/ [GGR270H1](#)

Exclusion: [ESS425H1](#)

Breadth Requirements: Living Things and Their Environment (4)

ENV320H1 - National Environmental Policy

Hours: 24L/12T

Examines ways in which governments develop and implement policy to protect the environment within their borders. Primarily Canada, plus comparisons with other countries. The focus is upon the politics of environmental policy making, which is understood by examining the interests and powers of the relevant state and non-state actors.

Prerequisite: Completion of 8.0 credits including [ENV221H1](#)/ [ENV222H1](#). Students who do not meet the prerequisites are encouraged to contact the Undergraduate Associate Director.

Breadth Requirements: Society and its Institutions (3)

JGE321H1 - Multicultural Perspectives on Environmental Management

Hours: 24L

Diverse approaches to environmental issues in a variety of multicultural settings are introduced, compared and analyzed, using case studies. Perspectives on environmental management will be discussed as they emerge from contexts such as Latin America, Asia, or Africa.

Prerequisite: ENV221H1/ ENV222H1/ GGR222H1/ GGR223H1

Exclusion: ENV321Y1

Recommended Preparation: 8.0 credits

Breadth Requirements: Society and its Institutions (3)

ENV322H1 - International Environmental Policy

Hours: 24L/12T

Examines the ways in which states negotiate and implement international agreements addressing global environmental issues, such as the United Nations Framework Convention on Climate Change. Focus is upon factors which determine the efficacy of multilateral environmental agreements and the prospects for stronger global environmental governance.

Prerequisite: Completion of 8.0 credits including ENV221H1/ ENV222H1. Students who do not meet the prerequisites are encouraged to contact the Undergraduate Associate Director.

Breadth Requirements: Society and its Institutions (3)

ENV323H1 - Ontario Environmental Policy

Hours: 24S

Introduces students to public policy and institutional foundations of public policy in Canada, with an emphasis on environmental policy in Ontario. Provides an insiders perspective on how environmental policy has been developed in Ontario.

Prerequisite: Completion of 8.0 credits including ENV221H1/ ENV222H1. Students who do not meet the prerequisites are encouraged to contact the Undergraduate Associate Director.

Breadth Requirements: Society and its Institutions (3)

ENV330H1 - Waste Not: Faith-Based Environmentalism

Hours: 24L

This course explores religious environmentalism, its proponents and opponents, and its core values within the Abrahamic faiths of Judaism, Christianity and Islam. Religious environmentalists have used teachings from sacred texts as exemplars of sustainability. Some, however, claim that these texts teach domination, anthropocentrism and hierarchical values. Looking at a range of worldviews, we focus on the topics of wastefulness, consumption, and simplicity. Readings about barriers, motivations, and values that inform environmental behaviour are complemented with field trips to places of worship where we will hear religious leaders speak about the environmental initiatives undertaken in their communities and see sacred spaces.

Prerequisite: Completion of 8.0 credits including ENV221H1/ ENV222H1. Students who do not meet the prerequisites are encouraged to contact the Undergraduate Associate Director.

Exclusion: ENV382H1 (Special Topics in Environment: Waste Not, Want Not: Stories of Wastefulness in Religion & Society), offered in Winter 2018, Fall 2018, and Winter 2020

Breadth Requirements: Thought, Belief and Behaviour (2)

JGE331H1 - Resource and Environmental Theory

Hours: 24L

Introduction to and critical evaluation of major ideas and conceptual traditions underpinning environmental and natural resource politics and regulation. Topics include: parks and protected areas, market-based environmental regulation, property rights and conservation, Malthusianism, and biodiversity conservation. Emphasis is placed on critical reading of primary texts.

Prerequisite: GGR100H1/ JEG100H1/ GGR107H1/ ENV221H1/ ENV222H1/ GGR222H1/ GGR223H1

Recommended Preparation: 8.0 credits

Breadth Requirements: Society and its Institutions (3)

ENV333H1 - Ecological Worldviews

Hours: 24L/10T

Approaches to environmental concerns are often marked by assumptions that reflect distinct worldviews positing particular understandings of the role of the human with

respect to nature. This course explores sundry economic, political, scientific, religious, and moral worldviews pertaining to the environment, including environmental ethics, Gaia, ecofeminism, scientific cosmology, and indigenous perspectives.

Prerequisite: Completion of 8.0 credits including ENV221H1/ ENV222H1. Students who do not meet the prerequisites are encouraged to contact the Undergraduate Associate Director.

Breadth Requirements: Thought, Belief and Behaviour (2)

ENV335H1 - Environmental Design

Hours: 18L/18P

Environmental design, in the context of this course, refers to design strategies that account for the ability of supporting ecosystems to continue to meet human needs and those of other lifeforms without diminishing biological diversity or environmental quality. This course takes a hands-on approach to investigating several environmental design issues: climate-responsive design, energy consumption, health and comfort, natural lighting and ventilation, and water management. Students will build up a design of a net-zero carbon residential building through several instructive design exercises during the semester, including hands-on measurement and calculation activities.

Prerequisite: Completion of 8.0 credits including ENV221H1/ ENV222H1. Students who do not meet the prerequisites are encouraged to contact the Undergraduate Associate Director.

Breadth Requirements: Society and its Institutions (3)

ENV336H1 - Ecology in Human-Dominated Environments

A two week course offered at a Southern Ontario field station during late summer. Introduction to impacts of humans on semi-natural and human-dominated environments of southern Ontario and over-view of the most commonly used assessment tools for states of ecosystems. These environments play important roles in terms of ecosystem services.

Prerequisite: first year biology and permission of the instructor

Breadth Requirements: Living Things and Their Environment (4)

ENV337H1 - Human Interactions with the Environment

Hours: 24L/12P

The impact of 7 billion people on the planet is enormous and challenges future generations. What are these impacts today and in future? What solutions and tools can avert societal collapse? Using an integrated and interdisciplinary systems approach, we explore problems and solutions to the earth's limits to growth.

Prerequisite: (Two of CHM210H1, EEB240H1/ ENV234H1, ENV237H1/ ENV238H1, ESS262H1) or (ENV221H1/ ENV222H1/ (EEB240H1/ ENV234H1) + BIO220H1 + BIO230H1/ BIO255H1). Students who do not have all of the required prerequisites are encouraged to contact the Undergraduate Associate Director to request a waiver.

ENV338H1 - Environmental Research Data and Decision-making

Hours: 24L/12T

Understanding the natural world and human perturbations to it requires data. All data has inherent biases and constraints. In this class we will explore the world of environmental data from the perspective of those interested in affecting positive change. The class will use case studies and current research to explore topics such as: How do environmental scientists design studies or experiments to answer specific questions? How do we characterize the limitations of the data we have and work within these constraints to answer scientific questions and make informed and meaningful decisions?

Prerequisite: Completion of 8.0 credits including ENV221H1/ ENV222H1 and ENV223H1. Students who do not meet the prerequisites are encouraged to contact the Undergraduate Associate Director.

Corequisite: None

Exclusion: None

Recommended Preparation: GGR274H1 or EEB125H1 or ENG286H1

ENV341H1 - Environment and Health

Hours: 24L

Examination of the linkages between human health and environment using an interdisciplinary, planetary health lens. Addresses basic public health and toxicological principles. Case studies are examined to highlight the multifaceted ways health and environment are

interconnected and to understand key factors modulating environmental exposures and health outcomes in various populations.

Prerequisite: ENV221H1/ ENV222H1 or (BIO230H1/ BIO255H1, and enrolment in the HMB Specialist in Health and Disease/HMB Specialist in Global Health), and completion of at least 8.0 credits of courses. Students who do not meet all of the prerequisites are encouraged to contact the Undergraduate Associate Director.

Breadth Requirements: Living Things and Their Environment (4)

ENV342H1 - Ecology of the Mind

Hours: 24L

“Ask not what is inside your head, but what your head is inside of.” – James Gibson. This course will explore how environmental settings shape our psyche: cognition, emotions, perceptions, behaviour, and wellbeing. It approaches the mind as embodied, socio-ecologically situated, and enacted. The course title is inspired by Gregory Bateson’s “ecology of mind” theory, which views the psyche as part of a relational network with the material world that, like biological ecosystems, will interact, adapt and evolve over time. Students will uncover how natural settings enhance sense of security, curiosity, connectedness and clarity, and how nature enhances systems thinking when we attend to its patterns of relationship. Students will understand and experience nature-based systems thinking that inspires more relational, interconnected and process-oriented perception. The course will highlight the psychological losses associated with environmental degradation, and how the benefits of above can be enhanced through nature-based mindfulness and collective environmental engagement.

Prerequisite: One of: ENV200H1; or ENV221H1; or TRN140Y1 and TRN141Y1; or BIO120H1, or PSY100H1. Completion of 9.0 credits.

Breadth Requirements: Living Things and Their Environment (4)

ENV346H1 - Terrestrial Energy Systems

Hours: 36L/24T

Various earth systems for energy transformation, storage and transport are explored. Geological, hydrological, biological, cosmological and oceanographic energy systems are considered in the context of the Earth as a dynamic system, including the variation of solar energy received by the planet and the redistribution of this energy through various radiative, latent and sensible heat transfer mechanisms. It considers the energy redistribution role of large-scale atmospheric systems, of warm and cold ocean

currents, the role of the polar regions, and the functioning of various hydrological systems. The contribution and influence of tectonic systems on the surface systems is briefly introduced, as well the important role of energy storage processes in physical and biological systems, including the accumulation of fossil fuel reserves.

Prerequisite: (MAT135H1, MAT136H1)/ MAT137Y1/ JMB170Y1; BIO120H1/ CHM136H1/ CHM138H1/ CHM135H1/ CHM139H1/ CHM151Y1/ PHY131H1/ PHY132H1/ PHY151H1/ PHY152H1

Breadth Requirements: The Physical and Mathematical Universes (5)

ENV347H1 - The Power of Economic Ideas

Hours: 24L

This course examines the power of economic ideas in effecting environmental change. Topics include the relation of ecological economics to mainstream economics, as well as the role of financial incentives to move the environmental agenda forward.

Prerequisite: Completion of 8.0 credits including ENV221H1/ ENV222H1. Students who do not meet the prerequisite are encouraged to contact the Undergraduate Associate Director.

Breadth Requirements: Society and its Institutions (3)

ENV350H1 - Energy Policy and Environment

Hours: 24L

The course addresses: (1) physical, technological and economic aspects of energy and electricity systems and their associated environmental impacts; (2) current international, Canadian and Ontario energy policy; (3) technological, economic and political factors influencing policy which could significantly reduce environmental impacts of energy use.

Prerequisite: Completion of 8.0 credits including ENV221H1/ ENV222H1. Students who do not meet the prerequisites are encouraged to contact the Undergraduate Associate Director.

Breadth Requirements: Society and its Institutions (3)

ENV360H1 - Is the Internet Green?

Previous Course Number: ENV261H1

Hours: 36L

The Internet has deeply penetrated most aspects of society and yet we are remarkably unreflective about its impacts and sustainability. This course challenges students to critically evaluate evidence regarding the environmental and social impacts of the Internet and how the Internet contributes (or not) to goals of environmental sustainability.

Prerequisite: Completion of 8.0 credits and [ENV221H1](#) or [ENV222H1](#). Students who do not meet the prerequisites are encouraged to contact the Undergraduate Associate Director.

Exclusion: [ENV261H1](#)

Breadth Requirements: Society and its Institutions (3)

ENV361H1 - Social Media and Environmentalism

Previous Course Number: ENV381H1

Hours: 24L/12T

This course examines the impacts of the internet on environmental thinking and policy-making. Topics include the use of social media as a tool for community-building and collaborative design, the sharing economy, online protest movements, mass surveillance and its implications, and the impact of misinformation on climate denialism.

Prerequisite: Completion of 6.0 credits

Exclusion: [BIG102Y1](#), [ENV381H1](#) if taken in 2015-16 or 2016-17

Recommended Preparation: [ENV221H1](#), [ENV222H1](#), and/or [ENV261H1](#)

Breadth Requirements: Society and its Institutions (3)

ENV362H1 - Energy & Environment: Transitions in History

Hours: 36L

An exploration of the interactions between humans and their environments in the Holocene, focusing on the contexts and consequences of changes in energy technologies. Includes consideration of changes in food production and processing, transport and power generation technologies from the adoption of agriculture to the twentieth century.

Prerequisite: Completion of 6.0 credits

Exclusion: [HPS307H1](#), [HIS300H1](#)

Recommended Preparation: [ENV221H1](#), [ENV222H1](#), and/or [ENV262H1](#)

Breadth Requirements: Society and its Institutions (3)

ENV381H1 - Special Topics in Environment

Hours: 24L

Special topics course designed for students in School of the Environment programs. Topics vary based on the year offered. See the [School of the Environment website](#) for more details.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Society and its Institutions (3)

ENV382H1 - Special Topics in Environment

Hours: 24L

Special topics course designed for students in School of the Environment programs. Content in any given year depends on instructor. See [School of the Environment website](#) for more details.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

ENV395Y0 - Special Topics Field Course

Hours: 48S

This course examines fundamental concepts in ecology, evolution, biodiversity, geology and conservation biology through lectures and fieldwork in highland, tropical and island ecosystems in Ecuador. The complex relations between these environments and the people who depend on them will also be examined through analysis of the social, cultural, and economic transformations that have taken place in recent years. Suitable for all School of the Environment programs.

Recommended Preparation: [ENV200H1](#) or equivalent; OR [BIO120H1](#) or equivalent

Breadth Requirements: Living Things and Their Environment (4), Society and its Institutions (3)

ENV396H0 - Special Topics Field Course

This course examines Australia's environmental, wildlife and conservation issues from an interdisciplinary perspective. In consideration of these issues, Australia's

unique flora and fauna are examined through lectures and fieldwork in the various climatically varied regions of Australia that are visited throughout the course.

Recommended Preparation: ENV200H1 or equivalent; or BIO120H1 or equivalent

ENV396Y0 - Special Topics Field Course

This course examines Australia's environmental, wildlife and conservation issues from an interdisciplinary perspective. In consideration of these issues, Australia's unique flora and fauna are examined through lectures and fieldwork in the various climatically varied regions of Australia that are visited throughout the course.

Recommended Preparation: ENV200H1 or equivalent; or BIO120H1 or equivalent

Breadth Requirements: Society and its Institutions (3), Living Things and Their Environment (4)

ENV397Y0 - Costa Rica: A Living Laboratory for Sustainability in Practice

Hours: 48L

Since abolishing its army in 1948, Costa Rica has prioritized healthcare, education, conservation, and sustainability. As a result, despite a modest per capita income, it has a high human development index and a relatively low ecological footprint (one quarter of Canada's). By some measures, it may also be the happiest country in the world.

During this course, students will learn how this came about while exploring concrete sustainability initiatives in areas related to education, environmental ethics, food production, forest conservation, and energy while also examining current challenges related to transportation, democracy, migration, and poverty. In so doing, students will gain insights into how more just, sustainable, and peaceful societies might be created in practice.

Recommended Preparation: A basic course in environmental studies such as ENV100H1, ENV221H1, ENV222H1, GGR223H1.

Breadth Requirements: Society and its Institutions (3)

Course Experience: Partnership-Based Experience

ENV398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

ENV398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

ENV399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

ENV411H1 - Sustainability Thinking

Hours: 24L/6T

This capstone course for the Certificate in Sustainability will build on the guiding sustainability principles and journal reflections that began in the foundational course, ENV222H1, and require students to reflect on the entirety of their sustainability education and experience.

Prerequisite: ENV222H1/ (TRN140Y1, TRN141Y1), 12.0 credits and enrolment in the Certificate in Sustainability.

Breadth Requirements: Society and its Institutions (3)

ENV421Y1 - Community Research for Social & Environmental Change

Previous Course Number: ENV421H1

Hours: 24L

This research course will provide students with an opportunity to engage in an action-focused, community-based group research project. This course is restricted to students enrolled in a program or certificate at the School of the Environment, or special permission of the Undergraduate Associate Director.

Prerequisite: Completion of 10.0 credits including ENV221H1 or ENV222H1. Students who do not meet the prerequisites are encouraged to contact the

Undergraduate Associate Director.

Exclusion: [ENV421H1](#)

Breadth Requirements: Society and its Institutions (3)

ENV422H1 - Environmental Law

Hours: 24S

An introduction to environmental law for students in Environmental Studies; legal methods available to resolve environmental problems and the scope and limits of those methods; common law and statutory tools as well as environmental assessment legislation; the problem of standing to sue and the limits of litigation.

Prerequisite: Completion of 12.0 credits including [ENV221H1](#)/ [ENV222H1](#). Students who do not meet all of the prerequisites are encouraged to contact the Undergraduate Associate Director.

Breadth Requirements: Society and its Institutions (3)

ENV430H1 - Community Research in Environment and Faith

Hours: 24L

Faith-based environmentalism is rarely part of sustainability discourse but could provide opportunities to engage people in new ways. This community engaged research course explores the richness and complexity of faith-based environmentalism. Time in the classroom will be spent building knowledge of the discipline through the discussion of theories and ideas, acquiring research skills, and unpacking field experiences. Time in the field will be spent engaging with the work of community partners and learning from them. The course is designed to bridge classroom knowledge with field experiences that allow for critical reflection and creative expression.

Prerequisite: 9.0 credits

Breadth Requirements: Society and its Institutions (3)

Course Experience: Partnership-Based Experience

ENV431H1 - Urban Sustainability & Ecological Technology

Hours: 24L

Ecological technology or green infrastructure encompasses those technologies that incorporate ecosystems to replace mechanical or non-living components in a machine or a piece of infrastructure. Complex systems theory and second-law thermodynamics are used as a template to explore concepts of urban

sustainability, and the role of ecological technology in this context.

Prerequisite: [ENV221H1](#)/ [ENV222H1](#), or permission of the Undergraduate Associate Director

Breadth Requirements: Living Things and Their Environment (4)

ENV432H1 - Urban Ecology

Hours: 24L/12S

The ecology of urban areas through consideration of the biological and physical environments, in particular how the human-constructed environment alters pre-existing biophysical conditions and interactions. Encompasses a comparative perspective to study the development of these emerging ecosystems of increasing importance given global urbanization. Saturday field trip using local transit.

Prerequisite: [BIO220H1](#) and at least one of [EEB319H1](#)/ [EEB321H1](#)/ [EEB365H1](#)

Breadth Requirements: Living Things and Their Environment (4)

ENV440H1 - Professional Experience Course

Hours: 10S

Regular academic seminars complement work placement of 70-80 hours at an organization involved with environmental work. The course enables students to gain practical experience of the needs and demands of professional environmental agencies. Students are given a choice of placements in a variety of sectors (such as government, NGOs, private sector).

Eligible students who wish to do a work placement in the upcoming summer or fall session must submit an online application form early in the preceding winter term, which can be found on the [School's undergraduate courses webpage](#) along with instructions and the application deadline.

Prerequisite: 10.0 credits, including 3.0 ENV credits in the student's environmental program completed before [ENV440H1](#) is taken, and an application.

Breadth Requirements: Society and its Institutions (3)

ENV441H1 - Human Health Impacts of Natural System Alteration

Previous Course Number: ENV430H1

Hours: 24S

The course introduces students to a wide range of topics and issues about the impacts of change in natural systems (e.g., forests, ocean, climate) on human health. Through readings and discussion, students will explore how the potential health effects of environmental change vary across groups of people having different socio-economic characteristics. A number of case studies or topics will be examined to exemplify why certain populations may be especially vulnerable to different types of environmental changes. Issues related to equity and justice will also be discussed.

Prerequisite: ENV341H1, or permission of the instructor.

Breadth Requirements: Living Things and Their Environment (4)

ENV450H1 - Energy and Environment Solutions

Hours: 12T/24S

This is an interdisciplinary course in which students address current energy problems while incorporating technical, environmental, economic, social, and political concerns.

Prerequisite: ENV346H1, ENV350H1 and any two of FOR310H1/ GGR310H1/ GGR314H1/ GGR347H1/ GGR348H1

Breadth Requirements: Society and its Institutions (3)

ENV451H1 - Current Environmental Topics

Hours: 24S

This capstone course for the School's core programs will explore current environmental topics, with the goal of integrating the multi- and interdisciplinary strands of each student's learning to date. This course is for students enrolled in one of the School's BA programs, or permission of the Undergraduate Associate Director.

Prerequisite: Completion of 12.0 credits including ENV221H1/ ENV222H1

Breadth Requirements: Society and its Institutions (3)

ENV452H1 - Environmental Science Seminar

Hours: 36S

Scientists from within and external to the university share and discuss challenges, findings and opportunities. Specific topics (and speakers) vary from year to year but may draw from rehabilitation techniques, contaminants in our environment, environmental health, impacts on landscapes and communities, biodiversity, water, and modelling of environmental processes. This course is for students enrolled in the School of the Environment, Environmental Science Major BSc program, or permission of the Undergraduate Associate Director.

Prerequisite: Completion of 12 credits of courses, including ENV316H1/ ENV334H1/ ENV337H1

Breadth Requirements: Living Things and Their Environment (4)

JEH455H1 - Current Issues in Environment and Health

Hours: 16L/8S

This course introduces students to complex issues at the interface between environment and health where health is broadly defined. Each year a current and controversial case study is explored from scientific, medical, political and policy perspectives. The course takes students from the molecular to individual to population and societal levels.

Prerequisite: Completion of 14.0 credits including one of ENV341H1/ HMB302H1/ HMB312H1/ HMB314H1/ HMB322H1

Breadth Requirements: Living Things and Their Environment (4)

ENV461H1 - The U of T Campus as a Living Lab of Sustainability

Hours: 24L

Sustainability is a growing priority for universities all over the world. Many are developing strong operational sustainability goals and targets, and are giving increasing emphasis to teaching and research on sustainability issues. Yet few have committed at the executive level to integrating academic and operational sustainability in the context of treating their campus as a living laboratory of sustainable practice, research and teaching. Arguably, it is such living lab approaches that offer the largest potential for universities to play a significant role in the sustainability transition. This course will explore and apply

the living lab concept, in the context of operational sustainability at the University of Toronto. We will begin by looking at the literature on university sustainability and the living lab concept. The bulk of the course will involve undertaking an applied research project on some aspect of campus sustainability, working in close partnership with operational staff at the University of Toronto. Students will develop the skills needed to work across disciplines and fields of study, and with non-academic partners. This course will put students to work on operational sustainability projects identified by the staff working in or with the Sustainability Office at the University of Toronto. Students will be organized into groups, each of which will be assigned one project, to be overseen by one or more U of T staff members. The bulk of the course will consist of regular meetings with the staff “clients”, with instructors, and in small groups to undertake a group project. Each group will produce a mid-term and final report, and give a mid-term and final presentation. Each student will also submit two 360 reviews of the group process. A crucial aspect of this course is the ability of students to work collaboratively together in a group environment, and to work effectively with a university staff person acting as a “client” for their work. Students will be provided with a Handbook outlining information on working in groups and the focus of the class in the second week will be on this issue. The first 360 peer review will serve to provide information on how well each group is working. Students are encouraged to discuss and resolve group process issues in the weekly group meetings, and in their regular meetings with the instructor and TA. The second 360 review will occur at the end of the term. The results of the two 360 reviews will be used, where appropriate, to adjust individual marks from the group averages.

Prerequisite: Completion of 10.0 credits including ENV221H1 or ENV222H1; or permission of the Undergraduate Associate Director

Recommended Preparation: 1.0 credit of environment-related coursework

Breadth Requirements: Society and its Institutions (3)

ENV462H1 - Energy and Environment: Economics, Politics, and Sustainability

Hours: 24L/12T

This interdisciplinary course examines key ideas in economics, domestic politics and geopolitics that are essential to understanding energy and environmental issues. The course will cover energy markets, how these have fundamentally shaped geopolitical relations and conflicts, and the increasing role that renewable energy and sustainability plays in setting policies.

Prerequisite: Completion of 10.0 credits

Recommended Preparation: ENV221H1/ ENV222H1

Breadth Requirements: Society and its Institutions (3)

ENV463H1 - Edible Campus

Hours: 36L

This course situates students and campuses within the context of broader movements for more ecologically rational and socially-just food systems. Topics include critical food systems pedagogy; the political economy of campus food systems; student food (in)security and health; campus food systems alternatives; campus food growing spaces; student/campus-based food movements; campus-community partnerships. The course is praxis-driven and will provide students with opportunities to engage in change-making on their campus, and beyond, through an action-focused project with a campus and/or community partner.

Prerequisite: ENV221H1/ ENV222H1, completion of 10.0 credits

Recommended Preparation: GGR339H1

Breadth Requirements: Society and its Institutions (3)

Course Experience: Partnership-Based Experience

ENV464H1 - Communicating Climate Change

Hours: 24L

Climate change is an urgent yet complex problem to communicate. Curiously, many young activists are still using the same messages and images that have been around for decades (i.e., burning globes and apocalyptic scenarios). How did these methods of climate communication emerge? And to what impact in terms of both public perception and policy? In this course, students will examine the historical development of climate communication from its origins in the Cold War to present day. In addition to learning how climate change is discussed and visualized, students will work together to produce creative projects and develop improved communication methods.

Prerequisite: 9.0 credits

Breadth Requirements: Society and its Institutions (3)

Course Experience: Partnership-Based Experience

ENV465Y1 - Toronto Climate Summer School

Hours: 24L/12T/36P

This is an experiential and interdisciplinary course to learn relevant methods, themes, and topics to engage with climate change in and connected to the Greater Toronto Area (GTA). Guided by place-based pedagogy and environmental justice, experiential learning, and

engagement across the physical to social sciences and humanities, this course seeks to equip students with questions, approaches, tools, and community in facing climate change. Students will also gain interdisciplinary research experience by working on faculty supervised projects.

Prerequisite: 9.0 credits

Breadth Requirements: Society and its Institutions (3), Living Things and Their Environment (4)

Course Experience: University-Based Experience

ENV481H1 - Special Topics in the Environment

Hours: 24S

Special topics course designed for advanced Specialist and Major students in School of the Environment programs. This course is for students enrolled in a School Environmental program, or permission of the Undergraduate Associate Director.

Prerequisite: Completion of 10.0 credits including ([ENV221H1](#), [ENV222H1](#))

JGE481H1 - Field Course in Environmental Geography

Previous Course Number: GGR481H1

Introduction to field studies in environmental geography. The course may include individual assignments and group work. Field trips are concentrated during a one-week period in late August or early September. Some preparation during the preceding summer may be required. Periodic course meetings and shorter field trips continue, along with course work, during the Fall Term. Each student is required to pay the costs of their transportation and accommodation (field trip costs: \$102). Students must submit an application directly to the Department in the spring (see the [Geography website](#) for details in March). Course may be limited by size. Not eligible for CR/NCR option.

Prerequisite: 9.0 credits and permission of the instructor
Exclusion: [GGR481H1](#)

Recommended Preparation: 3.0 credits in Geography and/or School of the Environment (BR=3)

Breadth Requirements: Society and its Institutions (3)

ENV482H1 - Special Topics in the Environment

Hours: 24S

Special topics course designed for advanced Specialist and Major students in School of the Environment programs. This course is restricted to students enrolled in a School Environmental program.

Prerequisite: Completion of 10.0 credits and ([ENV221H1](#), [ENV222H1](#)). Students who do not meet all of the prerequisites are encouraged to contact the Undergraduate Associate Director.

ENV491Y1 - Independent Studies Project

A research project or selected topic in an area of environment not otherwise available in the Faculty, meant to develop skills in independent study of interdisciplinary topics. This course is restricted to students enrolled in a School of the Environment program. A written proposal co-signed by the student and supervisor must be submitted for approval by the Academic Associate Director of the School normally one month prior to commencing the course. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits including [ENV221H1/ ENV222H1](#)

ENV492H1 - Independent Studies Project

A research project or selected topic in an area of environment not otherwise available in the Faculty, meant to develop skills in independent study of interdisciplinary topics. This course is restricted to students enrolled in a School of the Environment program. A written proposal co-signed by the student and supervisor must be submitted for approval by the Academic Associate Director of the School normally one month prior to commencing the course. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits including [ENV221H1/ ENV222H1](#)

ENV493H1 - Independent Studies Project

A research project or selected topic in an area of environment not otherwise available in the Faculty, meant to develop skills in independent study of interdisciplinary topics. This course is restricted to students enrolled in a School of the Environment program. A written proposal co-signed by the student and supervisor must be submitted for approval by the Academic Associate Director of the School normally one month prior to commencing the course. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits including
ENV221H1/ ENV222H1

Estonian

Given by the Department of Slavic and East European Languages and Cultures

Introduction

Estonian is spoken by approximately one million people in present-day Estonia and some 72,000 in other parts of the world, including 18,000 in Canada. Closely related to Finnish and more distantly to Hungarian, Estonian is one of the few Finno-Ugric languages to exist surrounded by speakers of Indo-European languages.

An ancient people, the Estonians have preserved their language and culture despite centuries of domination by other nations. Not only is their heritage enormously rich in folk epics and songs, but Estonians enjoy a vigorous and diversified literary tradition which continues in Estonia proper and in their adoptive countries.

Estonian studies at the University of Toronto are concerned with the language, literature, and culture of Estonia. The language courses will be of interest to those wishing to improve their language skills, as well as to students of general linguistics who desire to acquire a knowledge of a non-Indo-European language.

Estonian Courses

EST100H1 - Elementary Estonian Language and Culture I

Previous Course Number: EST100Y1
Hours: 48P

Learn essential Estonian vocabulary, basic grammar and develop elementary conversational competence. Popular songs, poetry, and structured dialogue are among the various tools for achieving these objectives. Students will learn commonly used phrases and expressions used in everyday situations, from greeting people to making purchases in stores, and ordering meals in cafes. The course is designed for students with either no fluency or minimum fluency in Estonian.

Note Regarding Estonian Studies Minor

Enrolment in the Estonian Studies Minor was administratively suspended as of February 9, 2023 and students are no longer able to enrol in the program. Students presently enrolled in the Minor will be able to complete the program requirements as described in the program record, published in the 2022-23 Arts & Science Academic Calendar.

Beginning in March 2024, all students interested in pursuing studies in Estonian language, literature, and/or culture are encouraged to enrol in one of the new programs in Slavic and East European Languages and Cultures (Minor, Major, Specialist) or in Slavic and East European Literature in Translation (Minor). All of these programs include the Estonian area of study. For more information on this new suite of programs, please consult the Slavic and East European Languages and Cultures section of the academic calendar or contact the Department of Slavic and East European Languages and Cultures directly for advising.

Estonian Studies: see Slavic and East European Languages and Cultures

Regarding Estonian Courses

The Department reserves the right to assign students to courses appropriate to their level of competence in Estonian.

Exclusion: EST100Y1
Breadth Requirements: Creative and Cultural Representations (1)

EST101H1 - Elementary Estonian Language and Culture II

Previous Course Number: EST100Y1
Hours: 48L

This course expands the student's command of Estonian from the introductory level. The course will consist of themed sessions using language for travel in Estonia, savouring the language of Estonian cuisine, and the lyrics of popular, folk and classical Estonian music. These themed sessions will also enable students to better understand the proper inflections of nouns and tenses of verbs in both dialogue and written exercises. This course is open to students with minimum fluency in Estonian.

Prerequisite: EST100H1 / Permission of instructor

Exclusion: EST100Y1

Breadth Requirements: Creative and Cultural Representations (1)

EST200H1 - Intermediate Estonian Language and Culture I

Previous Course Number: EST200Y1

Hours: 48P

This course develops the student's language skills via an exploration of Estonian culture - including its music, literature, film and media. Each of these areas will be examined through readings, writing about one's impressions, and speaking about them to others in the class. The course consists of a combination of both classroom and web-based learning. The course is open to students with some fluency in Estonian.

Prerequisite: (EST100H1, EST101H1) / Permission of instructor

Exclusion: EST200Y1

Breadth Requirements: Creative and Cultural Representations (1)

EST201H1 - Intermediate Estonian Language and Culture II

Previous Course Number: EST200Y1

Hours: 48P

Through an exploration of Estonian culture both in Estonia and the diaspora, students will further develop their skills in speaking, reading and writing in Estonian. Students will learn about the main characteristics of Estonian society – its history, way of life, the Estonian economy and business environment, and Estonian current affairs. Students will discuss recent trends and challenges in the development of Estonian society. The course will combine both classroom and web-based learning. It is open to students with elementary fluency in Estonian, both spoken and written.

Prerequisite: (EST100H1, EST101H1) / Permission of instructor

Exclusion: EST200Y1

Breadth Requirements: Creative and Cultural Representations (1)

EST203H1 - Introduction to Estonian Literature

Hours: 24L

This course provides a survey of Estonian literature from its origins to modern times and focuses on the 20th and 21st century developments: emergence of literary institutions, the impact of Soviet occupation, literature in exile, and the vibrant literary scene since Estonia's regained independence and joining of the European Union.

Breadth Requirements: Creative and Cultural Representations (1)

EST204H1 - Introduction to Estonian Culture

Hours: 24L

This course provides an introduction to Estonian culture: Folklore and folk traditions, visual arts and architecture, and contemporary popular culture and media.

Breadth Requirements: Creative and Cultural Representations (1)

EST205H1 - Estonian Cinema

Hours: 24L

This course provides an introduction to Estonian cinema: feature films, documentaries, and animation films.

Breadth Requirements: Creative and Cultural Representations (1)

EST300Y1 - Advanced Estonian

Hours: 72P

Advanced grammar and stylistics through study of a variety of texts; problems of composition; translation; oral and written practice. (Offered in alternate years)

Prerequisite: EST200Y1 or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

EST400Y1 - Estonian Literature from 1700

Hours: 24L/24S

A survey of the major writers and literary periods in Estonian literature. From Ksu Hans, Lament of Tartu to the National Awakening. Republican, Soviet, expatriate

literature, and the New Awakening. Readings in Estonian or English. (Offered in alternate years)

Prerequisite: Permission of instructor

Recommended Preparation: EST300Y1

Breadth Requirements: Creative and Cultural Representations (1)

EST420Y1 - Independent Study

A year-long reading and research project of significant depth in a major topic in Estonian language, literature or culture approved and supervised by an instructor. Not eligible for CR/NCR option.

Prerequisite: EST300Y1/ EST400Y1; permission of instructor

EST421H1 - Independent Study

A semester-long reading and research project of significant depth in a major topic in Estonian language, literature or culture approved and supervised by an instructor. Not eligible for CR/NCR option.

Prerequisite: Permission of instructor

Centre for Ethics

Introduction

The Centre for Ethics at the University of Toronto fosters research, teaching and public discussion of the moral dimensions of contemporary individual, social and political

Centre for Ethics Courses

ETH201H1 - Contemporary Moral Problems

Hours: 24L

ETH201 is an introductory course in ethics. How should we live? Which course of action is the right one? When and why should we blame ourselves and/or others? We all have and exercise moral opinions; this course is about justifying them. The course begins with some critical reasoning skills, and then explores philosophical strategies for justifying moral beliefs. We will then examine some specific issues of moral and political significance before concluding with psychological mechanisms behind moral attitudes and behaviour.

Breadth Requirements: Thought, Belief and Behaviour (2)

ETH210H1 - Rationality and Action

Hours: 36L

An introductory survey of attempts that have been made to develop a formal model of practical rationality, with particular emphasis on the way moral considerations enter into those deliberations. Topics may include: utility-maximization theory, introductory game theory, consequentialism, and deontic reasoning, as well as the limitations of rationality.

Breadth Requirements: Thought, Belief and Behaviour (2)

ETH220H1 - Moral Psychology

Hours: 36L

life. We are committed to the proposition that universities have a distinctive capacity and responsibility to shed light on questions of the moral life, as well as to educate students for reflective citizenship. Fulfilling this responsibility requires that we promote and engage in dialogue about the theory and practice of ethics across disciplinary, cultural, religious and social divides. For information or to make an appointment for consultation contact the Assistant to the Director, 416-978-6288 or email: ethics@utoronto.ca.

A study of issues that arise at the intersection of psychology and moral philosophy. Why do people act morally? What role do reason and emotion play? Can we know what is right, yet not be motivated to do it? What role can science play in advancing our understanding of morality?

Breadth Requirements: Thought, Belief and Behaviour (2)

ETH230H1 - Morality in Cross-Cultural Perspective

Hours: 24L

Is morality universal, or does it vary by time and place? This course will examine cultural differences in moral codes from both empirical and philosophical perspectives.

Breadth Requirements: Thought, Belief and Behaviour (2)

ETH350H1 - Topics in Value Theory

Hours: 24L

Selected topics in value theory, broadly construed (ethics, political theory, law). Consult the Centre for Ethics website for offering information.

Breadth Requirements: Thought, Belief and Behaviour (2)

ETH401H1 - Seminar in Ethics

Hours: 16L/16S

The seminar will expose advanced undergraduates to cutting edge research in ethics. It meets bi-weekly over the entire academic year. Participants will attend research

presentations at the Centre for Ethics (topics have included bioethics, indigenous rights, equality and education, free speech, and workplace democracy). They will also meet individually with the instructor to plan an independent research project related to the theme of the course. In the winter term, students will present their research and discuss it with the other students in the seminar. (Note that this is an "H1Y" course -- a half-credit course taught throughout both Fall and Winter terms.)

Prerequisite: One of PHL365H1, PHL375H1, PHL271H1, POL200Y1 or an equivalent, POL330Y1 or an equivalent. Preference for enrolment will be given to students of the Department of Philosophy, the Department of Political Science, and Trinity College's program in Ethics, Society, and Law.

Breadth Requirements: Thought, Belief and Behaviour
(2)

European Affairs

Introduction

The European Affairs Program is designed to develop an interdisciplinary expertise on modern Europe, combining rigorous language training with in-depth knowledge of Europe's history, politics, and culture. For students who desire the linguistic competence, the cultural comprehension, and the specialized knowledge necessary to operate effectively in the "new" Europe, the major program provides undergraduate students with the opportunity to focus on Europe through a wide variety of courses and disciplines with a focus on economics, history, language and politics. A major in European Affairs offers preparation either for further specialized or professional study at the graduate level or for work either in Europe itself or within a Canadian-based organization/business dealing with Europe.

Language competence is at the centre of the European Affairs Program. Students majoring in European Affairs are expected to acquire, in the course of their Program, a working fluency in one or more of the following designated languages: Croatian, Czech, Estonian, Finnish, French, German, Hungarian, Italian, Macedonian, Modern Greek, Polish, Portuguese, Russian, Serbian, Slovak, Spanish, or Ukrainian. European Affairs majors may want to consider working toward language citation. To ensure that graduates in European Affairs have the historical understanding and specialized knowledge, as well as linguistic competence, necessary to comprehend contemporary Europe, a balanced syllabus is presented: core courses on the political evolution of Europe and on the economics and politics of European integration are complemented by choices from courses offered by the twelve academic departments participating in the Program. Students who choose to minor in European Affairs will acquire in-depth knowledge of modern Europe.

European Affairs Programs

European Affairs Major (Arts Program) - ASMAJ1626

Visit the European Affairs Program website for updated information about requirements, course offerings, and events: <https://munkschool.utoronto.ca/ceres/european-affairs-undergraduate-programs> or consult Professor Robert Austin, Undergraduate Coordinator, Room 126N, Munk School of Global Affairs (416-946-8942,

robert.austin@utoronto.ca) for general program requirements.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

For students with no prior language experience:

- One Y or two H courses of the following (1.0 credit in a single language) with a final grade of 65% in each course: EST100H1 and EST101H1, FSL100H1 and FSL102H1, FSL121Y1, GER100Y1, HUN100Y1, ITA100Y1, MGR100H1 and MGR101H1, PRT100Y1, SLA100H1 and SLA101H1, SLA105Y1, SLA106H1 and SLA116H1, SLA107Y1, SLA108Y1, SLA109Y1, SPA100Y1

For students who are exempted from a first-year language course (i.e. those with some prior language skills):

- One Y or two H courses of the following (1.0 credit in a single language) with a final grade of 65% in each course: EST200H1 and EST201H1, FIN200H1 and FIN210H1, FSL221Y1, GER200Y1, GER300Y1, GER370H1 and GER372H1, HUN200Y1, ITA250Y1, MGR245Y1, PRT220Y1, SLA204Y1, SLA206H1 and SLA207H1, SLA257H1 and SLA277H1, SLA208Y1, SLA220Y1, SPA220Y1

Completion Requirements:

(7.0 credits, including at least 2.0 credits at the 300+ level, 0.5 of which must be at the 400-level.)

The distribution of the 7.0 credits is as follows:

- A two-year progressive sequence of courses in a single language totaling 2.0 credits. Specific language choices are listed below.
- An additional 1.0 credit in the single language already chosen, or 1.0 credit in **non-language** courses related to your chosen language of study. Variations on this can be discussed with the Program Coordinator.
- 2.0 credits in the required core courses: 1.0 credit offered by the Department of History (EUR200Y1) and 1.0 credit from POL219H1, POL324H1, POL358H1, POL359Y1, POL359H1, POL387H1, or any POL course with European content approved by the Program Coordinator.

- EUR498H1 - Special Topics in European Affairs: European Union, worth 0.5 credit.
- The remaining 1.5 credits in elective courses chosen from a list of eligible electives or any course with European content approved by the Program Coordinator.

Advising Notes:

- Students are expected to consult with the Program Coordinator for assistance with and advice on course selection.
- After consultation with the Program Coordinator, exceptions may be made in certain cases regarding the sequence of language courses based on prior and documented exposure to the language in question.
- Some of the courses listed below may have prerequisites; some may be offered in alternate years. Consult the Program Coordinator for up-to-date information.

First Year:

1.0 credit from one the following languages:

- Estonian: EST100H1 and EST101H1
- Finnish: FIN100H1 and FIN110H1
- French: (FSL100H1 and FSL102H1)/ FSL121Y1
- German: GER100Y1
- Hungarian: HUN100Y1
- Italian: ITA100Y1
- Modern Greek: MGR100H1 and MGR101H1
- Portuguese: PRT100Y1
- Russian: SLA100H1 and SLA101H1
- Czech: SLA105Y1
- Polish: SLA106Y1/ (SLA106H1 and SLA116H1)
- Bosnian, Croatian, and Serbian: SLA107Y1
- Ukrainian: SLA108Y1
- Macedonian: SLA109Y1
- Spanish: SPA100Y1

Second Year:

1. EUR200Y1

2. 1.0 credit from one of the following languages:

- Estonian: EST200H1 and EST201H1
- Finnish: FIN200H1 and FIN210H1
- French: FSL221Y1
- German: GER200Y1/ GER300Y1/ (GER370H1 and GER372H1)
- Hungarian: HUN200Y1

- Italian: ITA250Y1
- Modern Greek: MGR245Y1
- Portuguese: PRT220Y1
- Czech: SLA204Y1
- Polish: SLA206H1 and SLA207H1
- Bosnian, Croatian, and Serbian: SLA257H1 and SLA277H1
- Ukrainian: SLA208Y1
- Macedonian: SLA209H1
- Russian: SLA220Y1
- Spanish: SPA220Y1

Third Year:

1. 1.0 credit from POL219H1, POL324H1, POL358H1, POL359Y1, POL359H1, POL387H1, or any POL course with European content approved by the Program Coordinator.

2. 1.0 credit from one of the following languages, or 1.0 credit in **non-language** courses related to your chosen language of study, selected in consultation with the Program Coordinator:

- Estonian: EST300Y1
- Finnish: FIN300H1 and FIN340H1
- French: FSL321Y1/ FSL421Y1/ (FSL442H1 and FSL443H1)
- German: GER300Y1/ (GER370H1 and GER372H1)/ GER400H1
- Hungarian: HUN310Y1
- Italian: ITA350Y1
- Modern Greek: MGR300H1 and MGR301H1
- Portuguese: PRT320Y1/ PRT322H1/ PRT364H1/ PRT420H1
- Czech: 1.0 credit can be fulfilled through an independent study or another course approved in joint consultation with CERES and Slavic undergraduate coordinators. Please consult with CERES and Slavic departments to get approval.
- Polish: SLA306H1 and SLA336H1
- Bosnian, Croatian, and Serbian: SLA337H1, and additional 0.5 credit can be fulfilled through an independent study or another course approved in joint consultation with CERES and Slavic undergraduate coordinators. Please consult with CERES and Slavic departments to get approval.
- Ukrainian: SLA308Y1
- Russian: SLA320Y1/ SLA321H1
- Spanish: SPA320Y1/ SPA323H1/ (SPA420H1 and SPA421H1)

Fourth Year:

1. EUR498H1

2. Remaining courses to be selected from the list of eligible electives below. The most up-to date list of electives is on the program website. Students may also petition the Program Coordinator to take other courses in the calendar as electives, provided they have substantial European and/or Eurasian content.

Current Eligible Electives (for approval on courses outside the list or for transfer credits, please consult the Program Coordinator):

ANT446H1; ECO230Y1, ECO301Y1, ECO303Y1, ECO342Y1; ENG329H1, ENG340H1, ENG341H1; EST400Y1; EUR300H1; FCS195H1, FCS297H1, FCS310Y1, FCS331H1, FCS395H1; FIN230H1, FIN235H1, FIN240H1, FIN250H1, FIN260H1, FIN310H1, FIN340H1, FIN350H1, FIN415H1; FRE320H1, FRE324H1, FRE326H1; GGR339H1, GGR344H1, GGR361H1; GER150H1, GER204H1, GER205H1, GER232H1, GER150H1, GER261H1, GER321H1, GER322H1, GER323H1, GER326H1, GER336H1, GER350H1, GER362H1, GER410H1, GER421H1, GER425H1; HIS208Y1, HIS245Y1, HIS251Y1, HIS302H1, HIS309H1, HIS317H1, HIS325H1, HIS330H1, HIS331H1, HIS334Y1, HIS335H1, HIS337Y1, HIS338H1, HIS339Y1, HIS344Y1, HIS349H1, HIS351Y1, HIS353Y1, HIS354Y1, HIS355H1, HIS361H1, HIS364H1, HIS371H1, HIS388H1, HIS401H1, HIS407H1, HIS414H1, HIS415H1, HIS416H1, HIS418H1, HIS421Y1, HIS422H1, HIS431H1, HIS433H1, HIS439H1, HIS442H1, HIS445H1, HIS449Y1, HIS451H1, HIS453H1, HIS455H1, HIS458Y1, HIS459H1, HIS460H1, HIS461H1, HIS477H1, HIS488H1, HIS490H1; HUN335H1, HUN345H1, HUN355H1, HUN356H1; INI381H1, INI382H1; ITA210Y1, ITA240Y1, ITA245Y1, ITA301H1, ITA310H1, ITA326H1, ITA340H1, ITA341H1, ITA346H1, ITA347H1, ITA381H1, ITA405H1, ITA410H1, ITA415H1, ITA421H1, ITA441H1, ITA455H1, ITA491H1, ITA492H1; JHP304Y1, JHP435Y1, JHP454Y1; JPD439Y1; JPP343Y1; MUN200H1; PHL210Y1, PHL217H1, PHL265H1, PHL310H1, PHL311H1, PHL312H1, PHL315H1, PHL316H1, PHL317H1, PHL320H1, PHL321H1, PHL322H1, PHL326H1, PHL338H1, PHL365H1, PHL388H1; POL207Y1, POL317Y1, POL320Y1, POL321H1, POL324Y1, POL332H1, POL344H1, POL354H1, POL359Y1, POL368Y0, POL372H1, POL385H1, POL405Y1, POL414H1, POL415H1, POL422Y1, POL437H1, POL440Y1, POL452Y1, POL453Y1, POL455H1; PRT250H1; SLA202H1, SLA205H1, SLA215H1, SLA216Y1, SLA217H1, SLA218Y1, SLA222H1, SLA225H1, SLA226H1, SLA228H1, SLA234H1, SLA241H1, SLA242H1, SLA244H1, SLA247H1,

SLA248H1, SLA252H1, SLA302H1, SLA303H1, SLA315H1, SLA318H1, SLA322H1, SLA327H1, SLA328H1, SLA331H1, SLA337H1, SLA339H1, SLA340H1, SLA343H1, SLA344H1, SLA346H1, SLA356H1, SLA380H1, SLA404H1, SLA405Y1, SLA406H1, SLA407H1, SLA414H1, SLA417H1, SLA424H1, SLA425Y1, SLA434Y1, SLA436H1, SLA441H1, SLA442H1, SLA449H1, SLA453H1, SLA458H1, SLA460H1, SLA463H1, SLA465H1, SLA475H1, SLA476H1, SLA485H1, SOC341Y1, SOC350Y1; SPA325H1, SPA341H1, SPA345H1, SPA435H1.

European Affairs Minor (Arts Program) - ASMIN1626

Visit the European Affairs Program website for updated information about requirements, course offerings, and events: <https://munkschool.utoronto.ca/ceres/european-affairs-undergraduate-programs>

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- 1.0 credit in HIS or POL courses at the 100-level with a final grade of 70%

Completion Requirements:

(4.0 credits, including at least 1.0 credit at the 300- or 400-level)

1. EUR200Y1
2. 1.0 credit from POL219H1, POL324H1, POL358H1, POL359Y1, POL359H1, POL387H1, or any POL course with European content approved by the Program Coordinator.
3. 2.0 credits in eligible elective courses listed in the European Affairs Major

This course is designed for absolute beginners in the Modern Greek language. The overall goal is to facilitate understanding and use of familiar everyday expressions and phrases aimed at the satisfaction of basic communicative needs. Students will familiarize themselves with the Modern Greek alphabet, pronunciation and grammatical rules. No previous knowledge of Modern Greek required.

European Affairs Courses

MGR100H1 - Introductory Modern Greek

Hours: 24L

Exclusion: Students who have completed High School in Greece or a Grade 12 Modern Greek language credit.

Breadth Requirements: Creative and Cultural Representations (1)

MGR101H1 - Elementary Modern Greek

Hours: 24L

This course builds on MGR100H1 and aims to develop competence in the Modern Greek language at the basic level. Students will attain elementary proficiency in the spoken and written language by familiarizing themselves with a variety of grammatical and syntax structures while continuing to enrich their vocabulary. Emphasis will be placed on reading and conversational skills while students are expected to write short descriptive paragraphs.

Prerequisite: MGR100H1

Exclusion: Students who have completed High School in Greece or a Grade 12 Modern Greek language credit.

Breadth Requirements: Creative and Cultural Representations (1)

MUN120H1 - Revolutions

Hours: 24L/8T

This course transcends time and place to delve into the overarching dynamics of revolution. This exploration of revolutions goes beyond simple chronology to uncover common threads that unite these transformative events. From the spirit that ignited the English Revolution to the fervor of the American Revolution, the course navigates through the social and political forces that reshaped societies. Students will dissect the emergence of radical change, tracing its evolution from the French Revolution to the Revolutions of 1848 and the birth of modern political ideologies. The course then navigates through the 20th century, from the Russian and Chinese Revolutions to the Cuban Revolution and the intricate web of Latin American revolutionary movements. Comparative analysis delves into the universal and unique aspects of these revolutions, offering students an understanding of the power and influence of these transformative moments.

Breadth Requirements: Thought, Belief and Behaviour (2)

EUR200Y1 - Europe: Nation-State to Supranational Union

Hours: 48L/24T

An analysis of the development of European political regimes from 1789 until the 2004 and 2007 enlargements of the European Union to include the countries of the former Soviet bloc. This course identifies the decisive forces and factors affecting the operation of constitutions and institutions within the countries which came to form the European Union: nationalism, multi-nationalism, internationalism and supranationalism.

Exclusion: HIS241H1/ HIS242H1

Recommended Preparation: HIS103Y1/ HIS109Y1

Breadth Requirements: Society and its Institutions (3)

MGR245Y1 - Intermediate Modern Greek

Hours: 78S

A course designed for students with some command of the language: vocabulary building; study of grammar and syntax; compositional skills leading to the study of a prose literary work.

Prerequisite: First year Greek or equivalent; permission of instructor that includes language placement test evaluation

Breadth Requirements: Creative and Cultural Representations (1)

EUR299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...> . Not eligible for CR/NCR option.

EUR300H1 - Special Topics in European Affairs

Hours: 24L

This course offers students the opportunity to explore key issues in European Affairs. Topics vary from year to year, depending on the instructor. See Department website for current offerings. Course may not be repeated under the same subtitle.

Prerequisite: EUR200Y1 and 4.0 additional credits

Breadth Requirements: Society and its Institutions (3)

MGR300H1 - Advanced Modern Greek I

Hours: 24L

This course builds on the Intermediate level background knowledge to prepare students as independent users of the Modern Greek language. In order to attain conversational fluency and communicate effectively and accurately with native Greek language speakers, students will practice on reading and interpreting magazine and newspaper articles on various topics as well as applying more complex grammatical and syntax rules to write essays on assigned subjects.

Prerequisite: Completion of MGR245Y1 or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

MGR301H1 - Advanced Modern Greek II

Hours: 24L

The aim of this course is to facilitate fluency both in spoken and written Modern Greek. Proficiency at this level will be attained through familiarization with various texts and genres including a Modern Greek literature anthology and selected academic articles. Emphasis will be placed on writing which will lead to the production of a short research paper in Modern Greek.

Prerequisite: Completion of MGR300H1 or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

EUR398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

EUR398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

EUR399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

JRA401H1 - Topics in Comparative Politics V

Hours: 24S

Selected issues in comparative politics. Content and instructor vary from year to year.

(Given by the Department of Political Science and the Centre for European and Eurasian Studies)

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

JRA402H1 - Topics in Comparative Politics VI

Hours: 24S

Selected issues in comparative politics. Content and instructor vary from year to year.

(Given by the Department of Political Science and the Centre for European and Eurasian Studies)

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

EUR495H1 - Independent Studies

Hours: 2P

An in-depth of an issue of relevance to the European Union. Content depends on the instructor. Not eligible for CR/NCR option.

Prerequisite: Open only to students enrolled in the European Studies Major Program. Third and Fourth year students only.

Recommended Preparation: Varies year to year.

EUR498H1 - Special Topics in European Affairs: European Union

Hours: 24L

What is the European Union? Which are its core institutions and how do they work? What is the scope of its directives and programs, and how do they fit in with the member-states' policies? What is the role of the EU as an international actor? This course on *Special Topics in European Affairs* aims at answering all these questions. The course will start with an introduction to integration in Europe, the development of the EU, and some theories and approaches to its study. It will then review the main political, economic, and judiciary institutions in the EU. Last, it will examine some important policy areas and challenges at the European level, including migration and asylum, social cohesion, counterterrorist initiatives, scenarios after Brexit, relations between the EU and its neighbours, and foreign policy. Special care will be given to explaining the political interaction between the EU institutions and the member-states, on the one hand, and the EU's Directives and policy frameworks and the members' policies, on the other hand.

Prerequisite: Completion of 12.0 credits including EUR200Y1 and one of POL207Y1/ POL359Y1/ POL359H1

Breadth Requirements: Society and its Institutions (3)

Faculty of Arts & Science Programs (299/398/399)

Research Opportunities Program: 299H1/ 299Y1/ 399H1/ 399Y1 Courses

Director: Randy Boyagoda, Vice-Dean, Undergraduate
Contact: Office of Experiential Learning and Outreach
Support (rop.artsci@utoronto.ca)

The Research Opportunities Program (ROP) provides an opportunity for Arts & Science (St. George) degree students in their second and third year to earn course credit by participating in a faculty member's research project. Each 299H1/ 299Y1/ 399H1/ 399Y1 course has a program-specific designator, such as ANT, CLA, CSB, VIC, etc. Not all departments or programs will necessarily participate in the ROP each year.

In order to be eligible for the program, students must have completed at least 4.0 but not more than 13.5 credits by the end of the term in which they applied for ROP. Students can only participate in one ROP per application cycle and can participate in a maximum of two ROP courses during their undergraduate studies. Students will be placed into a 299 course for their first ROP and a 399 course for their second ROP. Students may not participate in two ROP courses with the same professor. Students apply to ROP projects and are informed in mid-April whether they have been accepted for Summer ROP, and mid-May if they have been accepted for Fall, Fall/Winter, and Winter ROP. Successful applicants are registered by the Office of Experiential Learning & Outreach Support. Regular tuition fees apply.

Assessment and grading methods are determined by individual faculty members and may differ between projects. Students are typically expected to present a poster of their work at the Bi-annual Arts & Science Research Fair.

Details about ROP projects, application deadlines, eligibility, and how to apply are posted on the [Faculty of Arts & Science website](#).

Research Excursions Program: 398H0/ 398Y0 Courses

Director: Randy Boyagoda, Vice-Dean, Undergraduate
Contact: Office of Experiential Learning and Outreach
Support (experiential.artsci@utoronto.ca)

The 398 Research Excursions Program (REP) provides an opportunity for Arts & Science (St. George) degree students in their third year (i.e., students who have completed at least 9.0 but not more than 16.0 credits by the end of the Winter term preceding the REP) to participate in an off-campus practical or experiential research activity, under the supervision of a faculty member. The practical, experiential component can take the form of research/learning in archives, laboratories, libraries, or in a field camp, etc.— but not in a classroom at another university (that is covered by the Faculty's summer abroad and exchange programs). REPs may take place in domestic or international locations. The projects run within the May-August period, when both Faculty and students can make the time commitments necessary. The Faculty of Arts & Science covers travel and living expenses for students. Regular tuition fees apply.

Each 398H0/ 398Y0 has a program-specific designator, such as ANT, CLA, CSB, VIC, etc., and would be eligible to count towards program completion if the program sponsor (Chair or Director) so chooses. A limited number of 398H0/ 398Y0 courses are available each year. Faculty supervisors propose the projects and choose students from those who apply. Students are typically expected to present a poster of their work at the Bi-annual Arts & Science Research Fair.

Note: To provide opportunities to as many students as possible, priority will be given to students who have not already received funding for a Faculty of Arts & Science international opportunity, including [IICM](#) or [DIIIF](#).

Details about REP application deadlines, eligibility, course offerings and how to apply are posted on the [Faculty of Arts & Science website](#).

Faculty of Arts & Science- Funded International Programs

Director: Randy Boyagoda, Vice-Dean, Undergraduate
Contact: Office of Experiential Learning and Outreach
Support (experiential.artsci@utoronto.ca)

In an effort to provide opportunities to as many students as possible, for Faculty of Arts & Science-funded programs priority will be given to those students who have

not previously received funding for these programs. All participants must be current Arts & Science (St. George) degree students in good standing, and their eligibility must be confirmed by the Experiential Learning & Outreach Support Office prior to acceptance to the program. Participation in a Faculty-funded program does not affect participation in Summer Abroad or student exchange opportunities.

International/Indigenous Course Module (IICM)

The Faculty of Arts & Science's International/Indigenous Course Module (IICM) provides an opportunity for faculty members to incorporate an intensive international or Indigenous experiential module into the framework of existing undergraduate courses. The IICM is designed to enhance students' classroom learning in a wide range of areas through the application of course content to relevant settings and communities around the globe. IICMs are selected in late May and take place over Reading Week the following November or February. Students' participation in the IICM may be incorporated into the final course grade. In many cases, IICM participants share their experiences with the wider Arts & Science community through publications, presentations or web-based resources.

Locations

Courses and locations for Reading Week in the upcoming November or February will be posted in June on the [Faculty of Arts & Science Current Students page](#). Interested students can view stories and highlights of previous IICMs on the [Learning Abroad website](#).

Courses

Past IICMs have examined the role of political changes in the Republic of Georgia, geologic evolution and mining in Spain, historical biography in Uganda and urbanization in China.

Cost

Faculty of Arts & Science provides funding for students' and faculty airfare, accommodation and local transportation. Students may be asked to contribute a deposit towards the IICM, but amounts are capped at \$200.00.

Eligibility

A limited number of IICMs are offered each year and the program is only available to undergraduate Arts & Science (St. George) degree students enrolled in the course(s) in which the module is proposed.

Application

Upcoming IICMs and their corresponding courses will be listed on the [Arts & Science website](#). Students express interest to participate in the IICM through the course professor. Once they are enrolled and faculty members will be responsible for selecting student participants.

If you are interested in working with a faculty member to create an IICM for a course, and for all questions related to the ROP, REP, and IICM programs, please contact: experiential.artsci@utoronto.ca

Undergraduate Research Fund

The Undergraduate Research Fund (URF) is funded jointly by the Arts & Science Students' Union (ASSU) and the Faculty of Arts & Science. It provides funding for students to develop a research project of their own, for which there is no other available funding. The fund is open to all Arts & Science undergraduate students in good academic standing and no minimum GPA is required. Research projects must be initiated by students, related to their degree, and supervised by a faculty member with a continuing appointment in the Faculty of Arts and Science either through a regular course, an independent study, a research essay, or other academic project. For application forms and further information, please see the [URF website](#).

For further information please contact: undergrad.awards.artsci@utoronto.ca

Finnish

Faculty List

Professor Emeritus

B. Vahamäki, MA, PhLic, PhD

Associate Professor

A. Muhonen, MA, PhD

Given by the Department of Slavic and East European Languages and Cultures

Introduction

A nation of five million people, Finland is situated between West and East, between Sweden and Russia, sharing for thousands of years religious, historical, political, social, and cultural influences and experiences with its neighbours and the different worlds they represent.

Finnish, a Finno-Ugric language related to Estonian and Hungarian, is spoken by 94% of Finland's population, by 300,000 in Sweden, and by large numbers in Canada, the United States, and other countries. The other constitutionally recognized group, the Finland-Swedes, comprises over six percent of the population. The Finns have a strong commitment to their languages and to their culture. Their national epic, the Kalevala, compiled in the 19th century from old Finnish epic narrative poems and incantations, soon became a national symbol and continues to this day to inspire the growth and development of the country's creative force. Today the entire world responds to Finnish achievements in music, literature, the arts and architecture, and celebrates the

Finnish Courses

FIN100H1 - Elementary Finnish I

Hours: 48P

The Department reserves the right to assign students to courses appropriate to their level of competence in Finnish. An introductory language course for students with no knowledge of Finnish. The acquisition of a basic vocabulary and of an understanding of elementary structural features through practice in comprehension, speaking, reading and writing.

work of such outstanding figures as Jean Sibelius, Aki Kaurismäki, Alvar Aalto, and Eliel and Eero Saarinen.

Finnish studies at the University of Toronto are presently engaged in teaching the Finnish language - a three-year sequence - and in offering other courses on the literature and culture of Finland.

Note Regarding Finnish Studies Programs

Enrolment in the Finnish Studies Major and the Finnish Studies Minor is no longer available as of September 21, 2023. Students presently enrolled in the Major or Minor will be able to complete the program requirements as described in the respective program record, published in the [2022-23 Arts & Science Academic Calendar](#).

Beginning in March 2024, all students interested in pursuing studies in Finnish language, literature, and/or culture are encouraged to enrol in one of the new programs in Slavic and East European Languages and Cultures (Minor, Major, Specialist) or in Slavic and East European Literature in Translation (Minor). All of these programs include the Finnish area of study. For more information on this new suite of programs, please consult the [Slavic and East European Languages and Cultures section](#) of the academic calendar or contact the [Department of Slavic and East European Languages and Cultures](#) directly for advising.

Finnish Studies: see [Slavic and East European Languages and Cultures](#)

Breadth Requirements: Creative and Cultural Representations (1)

SWE100H1 - Elementary Swedish I

Hours: 24L/24P

Elementary Swedish I gives students a basic knowledge of Swedish. Students learn to understand and use Swedish in everyday situations, and to read and write short texts on familiar themes, and speak about their immediate social environment and learn something about everyday life in both Finland and Sweden.

Exclusion: SWE101H1

Breadth Requirements: Creative and Cultural Representations (1)

SWE101H1 - Elementary Swedish II

Hours: 24L/24P

Elementary Swedish II, a continuation of SWE100H1 gives students a basic knowledge of Swedish. Students learn to understand and use Swedish in everyday situations, and to read and write short texts on familiar themes, and speak about their immediate social environment and learn something about everyday life in both Finland and Sweden.

Prerequisite: SWE100H1 or instructor permission

Breadth Requirements: Creative and Cultural Representations (1)

FIN110H1 - Elementary Finnish II

Hours: 48P

An introductory language course for students with no knowledge of Finnish. The acquisition of a basic vocabulary and of an understanding of elementary structural features through practice in comprehension, speaking, reading and writing.

Prerequisite: FIN100H1 or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

FIN200H1 - Intermediate Finnish I

Hours: 48P

The four language skills (speaking, listening, reading and writing) honed by discussion of Finnish literary texts as well as by compositions in Finnish about these texts, by a series of conversation exercises, and by analysis of morphology, syntax and word formation. Translation is used to aid in language learning.

Prerequisite: FIN110H1 or permission of instructor

Exclusion: FIN200Y1

Breadth Requirements: Creative and Cultural Representations (1)

FIN210H1 - Intermediate Finnish II

Hours: 48P

The four language skills (speaking, listening, reading and writing) honed by discussion of Finnish literary texts as well as by compositions in Finnish about these texts, by a series of conversation exercises, and by analysis of morphology, syntax and word formation. Translation is used to aid in language learning.

Prerequisite: FIN200H1 or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

FIN225H1 - Culture, Society and Politics of the Nordic Region

Hours: 24L

An introduction to the culture, society and politics of the Nordic region with a focus on Finland, Sweden and Estonia, and including other countries of the Baltic sea region. An overview of the evolution of culture and society, as well as historical and political developments, demonstrating how interactions between these two spheres have shaped life in the region today.

Breadth Requirements: Creative and Cultural Representations (1)

FIN230H1 - Finnish Culture 1800 to Present

Hours: 12L/12P

FIN230H1 offers an introduction to Finnish society, history and culture from 1800 to present. The course examines the rise of Finnish nationalism in the 1800s, its main manifestations, and concentrates on the developments of its cultural, educational and social institutions, its economic structures, demographics, cultural traditions as well as the nation's bilingual status. The focus is on contemporary themes placed in a wider societal context.

Breadth Requirements: Society and its Institutions (3)

FIN236H1 - Hot Reads from a Cool Country: Contemporary Finnish Literature

Hours: 24S

An introduction to contemporary Finnish literature which leads students through major developments in Finnish literature over the last 30 years with a focus on the major themes and trends of Finnish literature through selected

representative works. Finnish texts will be read in translation, analyzed and discussed.

Breadth Requirements: Creative and Cultural Representations (1)

FIN238H1 - The Vikings

Hours: 48L

This course examines the influence and reception of the Vikings on the Nordic countries and Europe up to the modern day, focusing on their legacy in the contemporary Nordic world in literature, film and other cultural fields.

Breadth Requirements: Creative and Cultural Representations (1)

FIN240H1 - Masterpieces of Scandinavian Literature

Hours: 12L/12S

Introduction to the greatest authors of Scandinavian literature and their greatest works, particularly August Strindberg, Henrik Ibsen, H.C. Andersen, Knut Hamsun, Selma Lagerlof, Pär Lagerkvist, Aleksis Kivi, Sigrid Undset and Halldor Laxness, etc. These are situated in their Scandinavian context and in world literature. (Offered every two or three years)

Recommended Preparation: Some background in literature

Breadth Requirements: Creative and Cultural Representations (1)

FIN250H1 - Finnish Cinema

Hours: 12P/24S

The course offers a survey of development of Finnish cinema from its parochial beginnings to its international recognition with a focus on contemporary themes. Selected films with different themes and topics will be screened and analysed. Readings and subtitles in English. (Offered in alternate years)

Breadth Requirements: Creative and Cultural Representations (1)

FIN260H1 - Scandinavian Cinema

Hours: 12P/24S

Major developments of cinema in Scandinavia in the 20th and 21st centuries focusing on Denmark, Sweden, and Finland. In addition to "old classics," most important recent films are screened and discussed. Film directors include Ingmar Bergman, Carl Th. Dreyer, Aki and Mika Kaurismäki, and many others. (Offered in alternate years)

Breadth Requirements: Creative and Cultural Representations (1)

FIN270H1 - Modern and Contemporary Finnish Architecture and Design

Hours: 24P

Finnish architecture and design from the 19th century to the present. Explores the technical and stylistic development of modern architecture and design in relation to the cultural and socioeconomic progress of the young nation. The focus is on the work of modern architects and designers. The course also examines the history of Scandinavian design more broadly.

Breadth Requirements: Creative and Cultural Representations (1)

FIN280H1 - Finnish Musical Culture from Sibelius to Heavy Metal

Hours: 24S

Analyzing the role of music in Finnish cultural identity, history, and society, this course explores both traditional and contemporary Finnish music, concentrating on what makes Finnish musical culture unique: Sibelius, kantele, folk music, heavy metal, rock and pop music. We will explore the themes of national and international music, the music industry, and the globalization of Finland's music.

Breadth Requirements: Creative and Cultural Representations (1)

FIN300H1 - Advanced Finnish I

Hours: 12P/24S

Advanced Finnish provides a continuation of [FIN210H1](#) Intermediate Finnish.

Prerequisite: FIN210H1 or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

FIN310H1 - Finnish Folklore: The Kalevala

Hours: 12L/12S

An examination of the Finnish national epic, the Kalevala: its relationship to the tradition of folk poetry; its quality as an epic poem; the mythological, religious, and cultural dimensions of its world view; its role in Finland's nation-building in the 19th and 20th centuries. Readings in English. (Offered at least every alternate year)

Breadth Requirements: Creative and Cultural Representations (1)

FIN320H1 - The Finnish Canadian Immigrant Experience

Hours: 12L/12S

Major issues and dimensions of the culture and experience of the Finnish immigrants to Canada, including Finnish Canadian literature, theatre, and press. Conceptual and ideological contributions to working class culture, women's lives, religious and social attitudes and values. Readings in English. (Offered every three or four years)

Breadth Requirements: Society and its Institutions (3)

FIN340H1 - Advanced Finnish II

Hours: 12P/24S

Advanced Finnish II provides a continuation of [FIN300H1](#) Advanced Finnish I.

Prerequisite: [FIN300H1](#) or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

FIN350H1 - The Finnish Short Story

Hours: 24S

Historical, structural, and thematic study of the short fiction of Finland from the Romanticism of the 19th century to contemporary post-structuralism and post-modernism. Works of Runeberg, Topelius, Kivi, Canth, Aho, Jotuni, Lehtonen, Schildt, Sillanpaa, Haanpaa, Meri, Hyry, Salama, Mukka, Liksom, and others. Readings in English. (Offered in alternate years)

Breadth Requirements: Creative and Cultural Representations (1)

FIN360H1 - Bilingualism in Finland

Hours: 12L/12S

Bilingualism in Finland as a case study in the sociology of language. A critical survey of the historical development of language politics in Finland as a bilingual society from 1800 until present.

Exclusion: [FIN340H1](#)

Breadth Requirements: Society and its Institutions (3)

FIN400H1 - Translation: Finnish-English

Hours: 24S

Written translation from Finnish to English. Students will apply their textual analysis skills in translating texts drawn from diverse sources and genres, while exploring the general theory of translation. Translation exercises will serve as the basis for training in comparative Finnish-English stylistics.

Prerequisite: [FIN300H1](#) or permission of instructor

Recommended Preparation: [FIN305H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

FIN415H1 - Finnish Literature in the 20th Century

Hours: 24S

This course examines the main literary works and genres of 20th Century Finland, especially Jotuni, Sillanpaa, Haanpaa, Meri, Manner, Linna, Tuuri and a sample of contemporary writers. All readings in Finnish.

Prerequisite: Permission of instructor

Recommended Preparation: [FIN410H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

FIN420Y1 - Independent Study

A year-long reading and research project of significant depth in a major area in Finnish language, literature or culture approved and supervised by an instructor. Not eligible for CR/NCR option.

literature or culture approved and supervised by an instructor. Not eligible for CR/NCR option.

FIN421H1 - Independent Study

A semester-long reading and research project of significant depth in a major area in Finnish language,

First-Year Foundations

Introduction

First-Year Foundations Seminars, First-Year Foundations Ones Programs, and the Vic One Hundred series enable new students to engage in academically rigorous discussions and develop strong written, oral, and teamwork skills in the process. These small classes are capped at 25 students, which helps ensure that all students are active participants in discussions and have

First-Year Foundations Courses

ACT199H1 - Decipher Financial Puzzles in the Media and Pop Culture

Hours: 24L

Have you ever watched a pundit's passionate rant over financial crisis on TV and wondered whether he was right or wrong? Did you get the full story after watching movies like *Margin Call* or *The Big Short*? What was the efficiency market versus behavioral finance debate all about? Did you wonder why everyone in the financial press seem to be calling for a lower debt/equity ratio on banks in the post-crisis era? If you find yourself think about those questions, this is the course for you. We will start from some basic building blocks of finance, such as time value of money and discounting, and proceed to look at some of the important financial controversies you have read or heard in the pop culture or media. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

AFR199H1 - Africa in Toronto

Hours: 24L

Africa in Toronto offers students the unique opportunity to trace, map and document sites and encounters with "Africa" in Toronto across diverse social, political, economic, linguistic and cultural communities in the GTA.

the opportunity to build relationships with professors early on in their academic career.

All newly admitted, first-year students in the Faculty of Arts & Science can register for any of these courses, regardless of college affiliation or entry stream. Taught by some of the Faculty's leading scholars, the best researchers and teachers at U of T, First-Year Foundations focus on issues, questions and controversies surrounding a particular topic or theme.

Read below to learn more about First-Year Foundations Seminars, First-Year Foundations Ones Programs, and the Vic One Hundred series.

(Please note: Some First-Year Foundations Ones Programs require an application, while you enrol in others during summer course selection. See details below.)

What are the diasporic lives of diverse African communities in the GTA? How does Toronto become home for them? Students will get the chance to learn about, reflect on and reimagine global Africa in the GTA by exploring topics such as placemaking, community-building, the politics of belonging, organizing and activism, economic hubs, artistic creation and expressive cultures, foodways and the epic battle over jollof rice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

Course Experience: University-Based Experience

ANT192H1 - Murder and Other Deathly Crimes: Anthropological Perspectives

Hours: 24S

Anthropology has much to say about death. There is foundational literature on sacrifice, suicide, and the rites surrounding the end of life. Anthropology also has a lot to say about violence: war, conflict, revolution. But at the nexus of death and violence lies murder, a culturally and socially salient phenomenon that garners less scholarly attention. This seminar will explore what constitutes murder in different cultural and historical contexts, by reading across anthropology, cultural studies, and film studies. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

ANT193H1 - Making, Using, and Interpreting Stone Tools

Hours: 6L/8P/10S

Stone tools are the earliest and longest-lasting record of human technology. This course explores interpreting stone tools from a multidisciplinary perspective. In making, using, and studying stone tools, students will learn how archaeologists form hypotheses and design experiments to understand humans and their technologies in the past. This course presents research that investigate changes in human ancestors' cognition and livelihoods through the contributions of other disciplines in life and social sciences to the study of stone tools. The course introduces major stone tool discoveries and critically engages with current research through the development of new ideas for research projects. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT194H1 - Human-nonhuman relations through Manga & Anime

Hours: 24S

Anthropology has examined various ways human beings imagine and engage with non-human beings in their everyday lives in particular social and cultural contexts. By using manga and anime, specific popular cultural expressive modes developed in Japan, this course examines social and cultural aspects of human relationship with other beings, including but not restricted to animals, plants, microbes, technological objects and spirits from anthropological perspectives. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

ANT195H1 - Speculative Fiction and Social Reality

Hours: 24S

How do the imagined worlds of speculative fiction reflect, and reflect upon, the real worlds of their authors and audiences? And on the other hand, how can works of speculative fiction have real-world impacts? Is speculative fiction different, in either of these respects, than other genres of narrative? This course explores a variety of works of speculative fiction from the perspective of an anthropological interest in ideas, imaginations, and

narratives in relation to social life. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

ANT197H1 - Representations of Intellectuals

Hours: 24S

This course is a First-Year Foundation Seminar and provides an opportunity for exploration of different topics and themes. The course explores ideas of intellectuals who carved transformative theories during war times or under repressive regimes in the twentieth century. Intellectuals featured in the course include Rosa Luxemburg, Frantz Fanon, Walter Benjamin, Lu Xin, Audre Lorde. Further, it would examine cultural representations of them, such as, graphic novels, fictions, essays, films and videos on them or relatable to their ideas. For example, it would assign reading of *Red Rosa*, a graphic novel of Luxemburg together with her own work *Theory of Imperialism*. Or it would juxtapose Lorde's classic, *Sister Outsider*, with Octavia Butler's science fiction, *Parable of the Sower*. First-Year Foundation Seminars are restricted to first-year students and do not normally contribute towards program completion. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ANT199H1 - Living on the Water in Toronto

Hours: 24S

What do the Great Lakes mean to people living here? Especially Indigenous people? When and how do people care about the Great Lakes? Poems, stories, social science offer perspectives on the water from anthropology and arts. Field trips including paddling on a river, hiking; talks with local activists and artists. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

AST198H1 - Great Astronomical Issues

Hours: 24S

There are some fundamental questions which humankind has asked itself over the centuries. Many of these involve astronomical origins, events, and objects. Astronomers now have the tools with which to attempt to answer some

of the most fundamental questions, such as "Where did it all begin, where are we in space and time, are we alone, and who and what are we?" This seminar will explore some of these great issues. The selection of topics will be made initially by the instructor, but will be modified by the seminar participants at the first class meeting. Topics could include: stellar evolution and the future of the Sun, origin of the elements, origin and future of the Universe, origin of the Earth, origin of life, and extinction of the dinosaurs, global warming, the scientific method, astronomy and the public. Participants will be expected to join actively in lively discussions and to prepare and lead some of the seminars. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: AST199H1

Breadth Requirements: The Physical and Mathematical Universes (5)

AST199H1 - Astronomy at the Frontier

Hours: 24S

This seminar series aims at building up general scientific literacy, by discussing selected topics in current astronomy, cosmology, and space science. We will delve into the physical foundation behind the questions being asked and how the answers are being sought. Students will have an opportunity early in the course to select topics of particular interest to them and this will govern the choice of readings as well. Topics could include: formation of stars; lives and deaths of stars; stellar corpses: white dwarfs, neutron stars, and black holes; planets around other stars; recent results from Hubble and other telescopes; architecture of the solar system; exploration in the solar system; the invisible universe: dark energy and dark matter; first light; formation of galaxies; the age and future of the universe. Participants should be comfortable with basic mathematics and quantitative reasoning. Students will be expected to do independent research for essays, presentations, etc. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: AST198H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CDN197H1 - Inventing Canada

Hours: 24S

This course explores the ways that Canadian history and identity have been commemorated, interpreted and experienced, now and in the past. The course focuses in particular on who has been included or excluded in commemorative efforts over time. Key topics include representations of women, Indigenous peoples, and political figures on screen and through public installations

like museum exhibits, plaques and statues. Case studies highlighting a range of interpretive media will encourage students to work with and discuss a range of primary and secondary sources, build critical thinking and academic writing skills. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CDN198H1 - Canada, Colonialism and Settler Relations

Hours: 24S

A First Year Foundations seminar focused on exploring Canada's colonial history and recent efforts to enact appropriate settler relations through an interdisciplinary lens. Topics will include contemporary land claims and treaty-making processes, the Royal Commission on Aboriginal Peoples, governmental apologies for the mistreatment of Indigenous peoples, the Truth and Reconciliation Commission, land acknowledgements, practices of allyship through social movement such as Idle No More, and efforts to influence Canada's overseas mining practices. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

CDN199H1 - Canada- Hong Kong Migration

Hours: 24S

This course surveys the effects of migrations and cultural connections between Hong Kong and Canada from the 1960s. Students will discuss and analyze the impact of migrations, and study the connection between the two locations from the perspectives of history, culture and literature, politics and democracy, economic and financial development and the network of people and community. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

CHM193H1 - Chemicals in the Environment: The Good, the Bad, and the Ugly

Previous Course Number: CHM211H1

Hours: 24S

The world is made up of chemicals: some are natural and some are invented and manufactured by humans. New chemicals are often intended to make our lives safer and easier (e.g., plastics, pesticides, personal care products) but may have unanticipated consequences once they are released into the world. In this seminar course, students will discover what properties of chemicals can lead to risks for the environment and for human health. Through discussion of how chemicals in the environment are understood by scientists, and described in popular media, students will develop improved scientific literacy to better evaluate risk in their own lives. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: CHM211H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM194H1 - Science and Human Values

Hours: 24S

There is a tension between creativity and the search for truth, which in science can be looking for patterns in nature. With examples drawn particularly from reports of scientific discoveries that have generated controversy, this seminar course will introduce the underlying principles and history of science, as well as how science and its boundaries are evolving, and how these influence human values. Restricted to first-year students. Not eligible for CR/NCR option.

Recommended Preparation: Minimum level of high school science and mathematics

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM196H1 - The Quantum World and Its Classical Limit

Hours: 24S

This course seeks to demystify quantum mechanics and equip students to critically analyze popular depictions of quantum phenomena. While quantum mechanics provides a reliable description of the behavior of atoms, molecules and photons, most people are uncomfortable with some of its predictions, such as "quantum entanglement" between distant particles. In this course we will delve into key aspects of quantum mechanics and its more comfortable classical limit, focusing first on its manifestations in nature and then on fundamental issues such as uncertainty, interference, entanglement, and decoherence. This course will appeal to students with enthusiasm for physics. Restricted to first-year students. Not eligible for CR/NCR option.

Recommended Preparation: High school physics and mathematics

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM197H1 - Environmental Chemistry in a Sustainable World

Hours: 24S

Rapid and widespread industrialization is changing the chemical nature of the planet. In order to have a sustainable future, we need to manage chemicals released by humankind and understand their effects on the environment and on us. Each year, this seminar course designed for non-science students will address the fundamental science behind a specific topic in this field, such as the interactions of our energy choices and the environment, or changes in water and air quality. Emphasis is given to reading from both the popular media and scientific literature. Restricted to first-year students. Not eligible for CR/NCR option.

Recommended Preparation: Grade 12 chemistry

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM198H1 - Biosensor Technology and Applications for the Non-Scientist

Hours: 24S

This breadth course introduces uses of and key ideas behind biosensor technology. Sensors will be familiar to all, playing key roles in our everyday lives, for example in touch screens or in automotive technology. Biosensor devices are fabricated from an electrical transducer which is intimately connected to a biochemical probe such as an enzyme or antibody. The idea is that a detectable electrical signal can be obtained when a target molecule or ion binds to the probe. Such a device offers many applications. These range from the detection of biological markers in blood and serum to test for genetic and infectious disease, to the selective monitoring of biomolecules for public safety, or in biotechnology or other industrial processes. Restricted to first-year students. Not eligible for CR/NCR option.

Recommended Preparation: Reading of book chapter on biosensor technology

Breadth Requirements: The Physical and Mathematical Universes (5)

CHM199H1 - The Context of Chemistry: Origins, Concepts, Tools, and Challenges

Hours: 24S

Chemistry is a practical as well as a conceptual science that serves as the basis for applications in many other fields. The ideas and methods have evolved from diverse inputs leading to widely accepted sets of standard of facts. This collective knowledge has led to progress in the quality and understanding of life at a molecular level. While the facts of chemistry are taught in established courses, the context of what we know, the limitations and challenges of what chemistry can do and how we got to this point will be the targets for discovery by students in this course. The course will operate in a seminar model, combining presentations, readings, reports and discussions of current and historical issues. Restricted to first-year students. Not eligible for CR/NCR option.

Recommended Preparation: Grade 12 level chemistry
Breadth Requirements: The Physical and Mathematical Universes (5)

CIN196H1 - Story Worlds and the Cinema

Hours: 24S

Films create story worlds, imaginary environments in which characters live and act, and where events, large and small, transpire. Some story worlds are elaborate, fanciful constructs (think of Disney's animated films). Others stay close to reality (think of "docudramas"). But across the spectrum, all of them are framed by and provided with rules of time and space, of believable or impossible. This course offers an examination of selected story worlds from several periods of film history. Emphasis falls on the expansive story worlds of contemporary corporately-run media-franchise "universes," like the cross-media "DC Universe." Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CIN197H1 - School Daze

Hours: 24P/24S

This first-year foundation course is a survey of sound film (with a brief selection of silent shorts) on the topic of how popular cinemas have represented going to school. Looking at one film and one scholarly text a week, the course will offer an introduction to the close reading of film

texts, reading and writing film criticism, and the fundamentals of film history. By engaging with only one film/reading per week, the course emphasizes depth over breadth. Texts for the course may include excerpts from Corrigan's *A Short Guide to Writing About Film*, Sturken and Cartwright's *Practices of Looking*, Staiger's *Interpreting Films*, and Prince's *Movies and Meaning*, along with selected criticism on the movies screened. Those films may include *Zero for Conduct*, *Aparajito*, *Tom Brown's School Days*, *Tea and Sympathy*, *If, Rock and Roll High School*, *Mean Girls*, *School Daze*, *Blackboard Jungle*, or *Lady Bird*. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CLA195H1 - Julius Caesar

Hours: 24S

Gaius Julius Caesar (100 – 44 BC) was a writer, an orator, a reformer, and a builder, as well as a general, a conqueror, an explorer, and a dictator. After his death, he was even worshipped as a god with a temple in the very heart of Rome. According to his critics, both ancient and modern, he was also a megalomaniac, an enemy of the state, a war criminal, and a tyrant. Only a very few individuals have left such an extensive and controversial mark on the history of the ancient world. We shall consider as many aspects of his life and his legacy as we can, from his conquest of Gaul to his decision to plunge Rome into a horrific civil war, from his love-affair with Queen Cleopatra of Egypt to his brutal assassination on the Ides of March. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CLA196H1 - Greco-Roman Instructions for Creative Composition

Hours: 24S

Education in Greco-Roman antiquity principally trained students to be public speakers. In the course of this instruction techniques for storytelling were imparted. What are the components of a narration? How does one build a compelling plot for a narrative? How can one suggest things that go beyond what one actually says? We will look at some of the instructional materials themselves. Then we will examine a variety of writings from the ancient world to see how the instructions are (or are not) put into practice. These writings will include public speeches, poems, and more. We will also examine more modern works and think about how the ancient advice might be

used to critique, expand or reshape it. And, finally, students will try to put some of the ancient advice into concrete practice by making their own creative compositions. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CLA197H1 - Inventing the Ancient Mediterranean: Roman Technology

Hours: 24S

Two thousand years ago Roman hydraulic engineers designed aqueducts and provided hundreds of cities in the Mediterranean region with a richer water supply than any nation could boast before the late 1800s. Ever more sophisticated ships transported goods from harbour to harbour and Roman experts on construction built the Colosseum and other amphitheatres, as well as countless temples, theatres, roads, bridges, and even high-rise apartment buildings, which in some cases survive to this very day. What was the secret of Roman civilization, and what did this level of technology mean for the empire's inhabitants? This course presents for discussion the many achievements of centuries of Roman presence on three continents around the Mediterranean Sea, while bringing into the equation also the issue of standard of living and the ecological costs. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

CLA198H1 - Homer's Odyssey down through Time

Hours: 24S

This course will survey creative works inspired by Homer's *Odyssey*. First we will read through the *Odyssey*, contextualizing the Homeric epic within the larger story of the Trojan War and the subsequent heroic return in the "Epic Cycle." Then we will study various "receptions" of the *Odyssey*, ancient and modern. Ancient works will include the satyr play *Cyclops* by Euripides and portrayals of a love-sick Cyclops in Theocritus and Ovid. In *True Story* Lucian calls Odysseus a liar but rivals his travel tale with episodes placed on the moon and inside a whale. Modern works include Atwood's *Penelopiad*, Walcott's stage version of the *Odyssey*, and the film "O Brother, Where Art Thou?" Themes will include travel literature, truth and lying, localization of the wanderings of Odysseus, culture clash, and the definition of home. All this material, various in date, media, and fidelity to their Homeric source, will provide us with a well-rounded sense of how the *Odyssey* has been re-imagined over the ages.

Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CLA199H1 - The "Decline and Fall" of the Roman Empire

Hours: 24S

After a high water mark of territorial reach and economic success in the middle of the 2nd century CE, the Roman Empire eventually disintegrated. How? Why? When? In this course, we will consider some of the historical features that may have contributed to its political collapse, and we will consider some modern scholarly analyses from Edward Gibbon (late 18th century) to the present. But we will also investigate "decline and fall" as a narrative trope. Why is this story arc always with us? Who decides what qualifies as "decline"? Is the "fall" of some systems necessarily a bad thing? Among the topics to be considered in the context of the Later Roman Empire are several of relevance in the modern world, not least: climate change, disease, human migration, religious difference, and economic inequality. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CSB195H1 - Computational Biology Foundations

Hours: 24L/12T

Our understanding of life is built from observation, abstraction, modeling, and comparison. In this First Year Foundations course we explore how these activities are based on concepts of chance and choice, of organization and dispersion, of cooperation and conflict, and how these ideas inform domains such as statistics, computer science, bioinformatics, molecular biology, physiology and ecology. Through this, we build a broad framework of relationships and connections that will make students' engagement with specialized courses throughout the sciences all the more meaningful. This course's focus on best practices of structuring project work, using tools and resources, and documentation, will be valuable preparation for all subsequent courses. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

CSB196H1 - Genes, Genomes and Us

Hours: 24L

With the completion of the human genome sequence, we now have access to more information than ever before about our genetic make-up. This course addresses topics such as what are genes, how are they identified and how does knowledge about genes impact society. Students will learn basic concepts in genetics. Using this conceptual foundation, the significance of genomic research for understanding human biology, and the social consequences that may result from it, will be discussed. Evaluation is based on class discussions, homework, oral presentation and written assignments. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

CSB197H1 - Human Viruses

Hours: 24L

This course allows students to broaden their knowledge about the most important human viruses and prions. In essence, what viruses are, what they do, what are the diseases caused by viruses and how they are transmitted, etc., and what can be done about them (vaccines, antiviral treatments, etc.). Viruses cause many diseases ranging from a benign rash to severe hemorrhages and death. Each student will select a specific topic in Virology and write an essay and present a seminar for the rest of the class. Major "hot" problems in Virology from pandemics to controversial vaccines will also be discussed. Two tests covering all materials presented by all the students' seminars will be conducted. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

CSB198H1 - Cell and Molecular Biology in the News

Hours: 24L

The pace of knowledge creation in the fields of cell and molecular biology has greatly increased in the 21st century and with it, the need for greater scientific literacy. In this course, we will teach students to find reliable sources of information in order to understand the basic concepts underlying the research reported in these media releases, with the ultimate aim of critically evaluating these reports. Through exploration of various media articles in cell and molecular biology (with an emphasis on humans), students will be able to apply what they have

learned to current events, as well as relevant issues in their lives and society as a whole. Students will be assessed through short-written assignments, class discussions, an oral presentation, and a final project where they will get the opportunity to explore the research behind a media article of their choice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

CSB199H1 - Biotechnology and Society

Hours: 24L

From the manipulation of genes of plants for improved food production through to human tissue engineering and stem cell research, biotechnology is increasingly playing a major role in our world. Society, however, is often challenged by the rapid advances in our knowledge in these areas, and how to best apply these technologies in a manner that is socially responsible and economically viable. In this seminar course, students will research and describe various applications of biotechnology using information obtained from reputable sources, and lead discussions on the benefits and concerns that arise from this research. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

CSC194H1 - Impactful Video Game Design

Previous Course Number: PMU199H1
Hours: 24S

An introduction to the fundamental design and development principles for digital games, and their potential for real-world impact and social betterment. Topics include game design history & social issues, narrative and gameplay elements, human-computer interaction and project management. Strong focus on how design elements affect player engagement and learning. This course requires students to create a game as part of the course, with practical assignments and a final project that reflect industry milestones. No programming is required for this course. Please note that not all CSC first-year seminars will be offered in a given year; please check the Timetable for current offerings. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

CSC196H1 - Great Ideas in Computing

Hours: 36L

We will pursue the general (and very debatable) theme of GREAT IDEAS in COMPUTING (including some surprising algorithms). The ambitious goal is to try to identify some of the great ideas that have significantly influenced the field and have helped to make computing so pervasive. We will concentrate on mathematical, algorithmic and software ideas with the understanding that the importance and usefulness of these ideas depends upon (and often parallels) the remarkable ideas and progress in computing and communications hardware. As we will see, many of the great ideas were against the "prevailing opinion". The list of topics we shall discuss will depend to some degree on the background and interests of the class. Please note that not all CSC first-year seminars will be offered in a given year; please check the Timetable for current offerings. Restricted to first-year students. Not eligible for CR/NCR option.

Recommended Preparation: Some knowledge of probability theory

Breadth Requirements: Society and its Institutions (3)

CSC197H1 - Big Data and Privacy

Hours: 24S

The rapid advance of technology has brought remarkable changes to how we conduct our daily lives, from how we communicate, consume news and data, and purchase goods. As we increase our online activity, so too do we increase the amount of personal data that we're sharing, often without realizing it. The questions of exactly what data is being collected, who is collecting and accessing this data, and how this data is being used, have significant implications for both individuals and our larger social and political institutions. Organized by a wide variety of case studies drawn from current events, we'll study how personal data can be collected and tracked, how personal and social factors may influence our own decisions about whether and how much to share our data, and what broader political and legal tools are used to either protect or subvert individual privacy. Please note that not all CSC first-year seminars will be offered in a given year; please check the Timetable for current offerings. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

CSC199H1 - Intelligence, Artificial and Human

Hours: 36S

What is human intelligence? How close are we to replicating it? How productive/reductive is the brain-computer analogy? What ethical challenges are posed by AI on workers, society, and the environment? Can we put a hold on "progress"? Is Silicon Valley the seat of a new techno-religion? What can they teach us about today's research priorities? What insight (or inspiration) can we get from works of science fiction about the future of human-AI interaction? Through reading discussion, written assignment, and workshops, this seminar will present students with the opportunity to integrate their computer science interests with philosophy, history, and literature. *There is an equivalent course offered by St. Michael's College. Students may take one or the other but not both.* Please note that not all CSC first-year seminars will be offered in a given year; please check the Timetable for current offerings. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: SMC199H1 (Intelligence, Artificial and Human)

Breadth Requirements: Society and its Institutions (3)

DTS199H1 - Superman and Other Migrants

Hours: 24S

From the 1938 debut of Superman until the spate of recent autobiographical graphic novels by immigrants and children of immigrants, the development of the comic and graphic novel form has been intricately bound up with the diaspora experience. In this course, we will explore the emergence of the superhero from the immigrant experience; trace the depiction of migrants, immigrants and refugees in recent graphic novels; and study visual strategies for representing migration and displacement. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

EAS193H1 - What is "The Yellow Peril"?

Hours: 24L

This course explores the old and new reincarnations of "the Yellow Peril" complex. The 2020 naming of COVID-19 as "the Chinese virus" by the U.S. president Donald Trump has provoked much anger, criticism, and concerns for anti-Asian violence and the reactivation of "The Yellow Peril" panic. Yet the imaginaries of "the Yellow Peril" and their power effects have been engrained in our political modernity, the Enlightenment ideas, and its institutions in a much more complex, far-reaching, and intersecting ways in East Asia and beyond. The course will explore various types of cultural productions, including history,

literature, film, news media, etc., to introduce the racial, colonial, capitalist, sexual, militarized, and other dimensions of the “Yellow Peril.” Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

EAS194H1 - East Asia through Music

Hours: 24L

This course will discuss ‘East Asia’ through music as composed, performed, recorded, processed, remembered, imagined, and represented. Questions to be asked include: what kinds of sound are recognized as music in East Asia? What are the goals and effects of music? When, where, and how is music performed in East Asia? How is music described in East Asian literature and visual art? How does music translate East Asian literature and visual art? How are certain musical elements—tonality, rhythm, genre, instruments—recognized as ‘East Asian’? How is East Asia imagined musically? How are East Asian composers and performers received globally? Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

EAS195H1 - Shan Shui Landscape: A Cultural Historical Study

Hours: 24L

This course looks into the history of cultural production of Chinese Shan Shui (lit., mountain and water) landscape representations from an environmental humanities perspective. As an artistic motif, Shan Shui travels between past and present and across various mediums as well as literary and artistic genres. What exactly are we invited to see and contemplate on in the Shan Shui? Are Shan Shui works about “nature,” spirit, Qi, or the human world? The course seeks to inquire into these and other questions through examining the concepts, arts, and transformations of selected Shan Shui works in imperial and contemporary China. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

EAS196H1 - Consumption, Taste and Culture in East Asia

Hours: 24S

This course explores the roles that consumption and taste play in personal and public lives in East Asia. Course focus may include the cultural histories of food, fashion, tourism, sports, or forms of audio and visual media. (No prior knowledge of East Asian languages or cultures is necessary.) Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

EAS197H1 - Media Worlds and East Asia

Hours: 24S

The term “world-making” is often used nowadays to refer to transmedia storytelling, or the creation of story-worlds across serial narratives in a range of entertainment media, such as novels, games, film series/franchises, television shows, comics, and webtoons. This course looks at the ways that media producers and fans, alike, engage with media worlds. More importantly, the course situates these media worlds within a broader conception of “world-making,” namely, the geopolitical and economic configuration of modern East Asia. (No prior knowledge of East Asian languages or cultures is necessary.) Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

EAS198H1 - Martial Arts in East Asian Narratives

Hours: 24S

What can we learn about East Asian history and culture through its rich tradition of narratives featuring the martial arts? This course introduces short stories and novels dealing with combat and warfare from nearly two thousand years of East Asian literature, exploring issues such as self and society, gender, power, the body, and identity. All texts will be provided in translation, and no prior knowledge of any East Asian language or culture is necessary. The texts explored will vary year to year, depending on the instructor. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

EAS199H1 - Thinking through Art in Chinese Culture

Hours: 24S

This seminar explores different visions and methods of art (textual and visual) as a way of thinking about living, knowing, and willing in Chinese culture. Examination of various theoretical texts on arts and literature, as well as works of art themselves, will provide students with knowledge and research skills on arts in Chinese culture, and an expanded sense of Chinese intellectual history. Questions explored in the course will include: How should we understand the concept of Chinese art beyond representation? How did Chinese literati pursue a sense of beauty through their poetry and painting? How is beauty apprehended in natural and constructed landscapes? What are the political and social functions of art education in Chinese culture? How do Chinese artists fit into a global cultural context? (No prior knowledge of East Asian languages or cultures is necessary.) Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

ECO196H1 - An Economist's Guide to the Galaxy

Hours: 24S

Climb aboard as we seek answers to the "Ultimate Question of Life, the Universe, and Everything" (Douglas Adams). Unlike the Hitchhiker's Guide to the Galaxy, the answer will not be 42. Prepare for a wide-ranging journey into the questions economists seek to answer and the evidence they muster to examine these questions. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ECO197H1 - Seminar on Classical Economic Thought

Hours: 24L/12T

This seminar examines the basic ideas of the five most notable economic thinkers before 1870: Aristotle, Adam Smith, Thomas Malthus, David Ricardo, and Karl Marx. We focus on demand as the basis of price in Aristotle; the ambiguity in Smith between a labour theory of value and a demand/supply theory of value; the principle of population in Malthus; Ricardo's labour theory of value and his theory of rent and economic growth; and Marx's labour theory of value as the explanation for the development of capital.

The understanding in these authors of economics as an historical process of production gives fascinating insights into modern economic development that contrast with the modern economic concentration on the distribution of resources in a world of scarcity. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ECO198H1 - Seminar on Modern Economic Thought

Hours: 24L/12T

This seminar examines the development of modern economic thought from the marginal revolutionaries (Jevons and Menger) who proclaimed that demand in the form of utility was the basis of price to the supply/demand analysis of Alfred Marshall that established modern microeconomics by 1890. We then look at Irving Fisher's 1907 foundation of the modern concept of the interest rate and the present value of capital before reviewing J.M. Keynes' 1936 criticism of neo-classical positions on full employment and interest rates in arguing for government manipulation of interest rates to ensure full employment. We finish with Milton Friedman's championing of the unregulated market economy through his quantity theory of money critique of Keynes. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ECO199H1 - Economics and Sustainable, Green Development

Hours: 24L/12T

Economic growth has been a powerful force through history in improving living standards throughout the world. At the same time, there is a growing recognition that environmental damages frequently accompany this growth, whether it be at the local level (soil degradation and deforestation), or the global level (climate change). Economics studies the allocation of scarce resources, but how can it incorporate "the environment" in a meaningful way that can help guide policy-makers in the 21st century? This course is a fast review of economic approaches and tools, and a review of a wide range of environmental policies, designed to manage the possible adverse impacts of economic expansions. The major emphasis in this course is on the market-based policies that guarantee incentive compatibility of these policies, thus, a higher chance of success. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

EEB196H1 - Using Ecology and Evolution to Understand our World

Hours: 24L

Understand the living world by learning principles of ecology and evolution. Through discussion, scientific literature research, seminal readings, written reports and presentations, you will discover how scientists ask and answer questions in ecology and evolution. Specific topics will vary to emphasize the expertise of the instructor, with examples including: Are humans still evolving? What is causing the sixth extinction crisis and how can we protect endangered species? Are species shifting their ranges to mitigate the impacts of climate change, and should we be helping them? How do diseases evolve and can we use evolutionary tools to control diseases of concern? Why are there so many species, and do introduced species increase or lower this diversity? Can and should we use evolution to create improved species? For non-science students in all disciplines. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

EEB197H1 - Biodiversity and the City

Hours: 24L

Most of us are urban creatures, but we as people are not the only urban creatures. In this seminar we will explore the diversity of animal and plant species comprising the ecological community that we call "Toronto". We will learn their names, whether they are endemic (from here originally) or newcomers, general aspects of their biology that suit them to living in an urban environment, how natural selection shapes the traits similarly and differently for species in urban versus wilderness settings, and what happens when the wild and the domesticated members of the community meet one another. For non-science students in all disciplines. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

EEB198H1 - Genes and Behaviour

Hours: 24L

In this course you will experience the new paradigm in behaviour genetic research. You will learn why the concept of a nature-nurture dichotomy is passé and that it has been replaced by a new understanding gained from animal and human research in the areas of gene by environment interaction and epigenetics. We will discuss

how our genome listens to our environment and the effect this has on our health and behaviour. We will learn why our early experiences are critical for the development of our brains and our bodies. Together this new body of knowledge will help us understand how individual differences in behaviour and health arise. For non-science students in all disciplines. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

EEB199H1 - Humans, Evolution and Ecology

Hours: 24L

Learn about the evolution and ecology of humans and other species. Through discussion, scientific literature research, seminal readings, written reports and presentations you will discover scientific answers to questions such as (topics vary among years): How did life originate? Why are there so many species? Where did humans come from? Will humans become extinct? How can we explain human DNA and human brain size? Need we worry about climate change? What is causing the sixth extinction crisis? Are there ecological limits to human population size? What will life be like in the Anthropocene? Are humans still evolving? For non-science students in all disciplines. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

ENG196H1 - Cook the Books

Hours: 36S

If, as Brillat-Savarin so famously said, "you are what you eat", then what are we? What do our eating choices reveal about us and what we value? In this class, we will examine stories about farming, cooking, and eating in order to understand how culture shapes culinary traditions and vice versa. But we don't stop there: through cooking and eating together, we will create new stories about our food and our relationship to the earth that sustains us. Co-taught with a professional chef, this course combines literary and historical analysis with hands-on cooking classes, shared meals, and food-oriented field trips. Restricted to first-year students. Not eligible for CR/NCR option. An additional fee to cover food and field trip costs is required.

Exclusion: [ENG197H1](#), [ENG198H1](#), [ENG199H1](#)
Breadth Requirements: Creative and Cultural Representations (1)

ENG197H1 - Time Travel and Narrative

Hours: 24S

From H.G. Wells to *Star Trek* to *Bill and Ted's Excellent Adventure*, tales of time travelers remain captivating. What does our fascination with time travel tell us about storytelling and narrative? This course will explore the questions that time travel raises about narrative as well as history, temporality, subjectivity, and agency. We will look at examples of time travel in film, television, and books as well as philosophical and scientific writing about it. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: ENG196H1, ENG198H1, ENG199H1

Breadth Requirements: Creative and Cultural Representations (1)

ENG198H1 - Representing Disability

Hours: 24S

Understanding disability as a cultural concept—not a medical condition or personal misfortune—that describes how human variation matters in the world, this course asks: how do literary texts represent physical and intellectual disability? Reading drama, fiction, and poetry, we will consider how disability prompts new strategies of writing and thinking, in order to consider what new forms of representation disability can produce, and what the concept of disability can teach us about being human. We will consider literary, visual, performative, and performance-based possibilities for bodies and minds that resist normative structures, theorize ideas of access, cure, and care, and claim disability as enlivening identity. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: ENG196H1, ENG197H1, ENG199H1

Breadth Requirements: Creative and Cultural Representations (1)

ENG199H1 - Tree Stories

Hours: 24S

Trees are all around us. We climb them, tell stories about them, write on paper, at desks, in homes made from them. But most people tend to take them for granted. This course considers how we imagine trees in works of art and legend and what trees can teach us about our own place in the world. We will read stories and poems as well as exploring the trees around campus and the

environment we share. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: ENG196H1, ENG197H1, ENG198H1

Breadth Requirements: Creative and Cultural Representations (1)

ENV194H1 - Topics in Climate Change

Hours: 24S

In this class we will discuss the underlying science of the climate system and also explore how this information is communicated effectively. Restricted to first-year students. Not eligible for CR/NCR option.

ENV195H1 - The Sustainability Transition

Hours: 24S

Can you imagine a sustainable future? What would it look like? How can we get there? We are often bombarded by negative images about our future and the future of the planet. In this seminar class we will explore what a sustainable world might look like and ways that we can get there. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ENV196H1 - Environment, Culture and Film

Hours: 36S

This first-year foundation course will introduce students to the scope and seriousness of some of current ecological concerns, as well as some core principles and concepts in the field of the intersection of environment and culture, through the lens of feature films. Through journal reflections, class discussions and guided critical thinking exercises, and a paper, students will be able to build confidence and enthusiasm for further study in environmental studies, within a small seminar setting. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

ENV197H1 - Idleness and the Environment: What Does Sustainable Work Mean?

Previous Course Number: ENV198H1

Hours: 24S

In a fast-paced, high-tech world—and one that must rapidly decarbonize to address the climate crisis—the relationship between labour and environment is rapidly changing. This course explores the intersection of work and the environment, considering how ideas about leisure and idleness might offer new pathways for a more sustainable future. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ENV198H1 - Environment & Mental Wellness

Hours: 24S

This foundations course is an introduction to Environmental Psychology and related disciplines. We will examine the mutual relationship between the human psyche and the environment, with a focus on mental wellness. Topics will include: psycho-evolutionary environments, place attachment and identity, neurological toxins and environmental health, the modern period, cultural perceptions on nature-psyche, climate anxiety and ecological grief, nature connectedness and restorative environments. As a foundations course, students will develop key academic skills such as academic literacy, communication and application, interdisciplinary critical thinking, as well as creative problem solving. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

ENV199H1 - Debating & Understanding Current Environmental Issues

Previous Course Number: SII199H1 LEC0201

Hours: 2L

The course examines current environmental issues for which there is no easy answer or consensus position. For instance, to help solve climate change should we generate more electricity from nuclear power-plants, which have no greenhouse gas emissions? Or instead, should we phase out nuclear plants because of possible accidents, costs and radioactive wastes? The seminar examines the scientific and political aspects of such

issues and debates the pros and cons of each. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ESS196H1 - Life and Death in the Solar System

Previous Course Number: PMU199H1

Hours: 24L

Earth is the only planet in the solar system known to support life. Through directed readings, seminars, videos and lab visits, participants in this course will work with instructors whose own research tackles important questions concerning the origin of life on earth; the limits to life on this planet; implications for life under extreme conditions elsewhere in the solar system; and the life cycles of the planets themselves. The course will involve reading of scientific literature, student-led discussions, oral presentations and research projects, as well as potential field trips to sites in Southern Ontario. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS197H1 - Earth and Life through Time

Previous Course Number: PMU199H1

Hours: 24L

This seminar will look through the lens of earth history to explore drivers of change in the biosphere and the impacts of these changes. We will focus on episodes of mass extinction, and the spectacular landscape changes and speciation events which often followed. Abrupt or gradual climatic changes, massive volcanism, asteroid impacts, catastrophic carbon releases, and human activity will be evaluated as the causes of major extinction events in Earth history. The course will involve reading of scientific literature, student-led discussions, oral presentations and research projects, as well as potential field trips to sites in Southern Ontario. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS198H1 - Resources and Sustainability

Previous Course Number: PMU199H1

Hours: 24L

The rise of humanity is intricately linked to the exploitation of natural resources. From its earliest attempts to use fire and extract metals from rocks, to coal-fired steam that brought the industrial revolution, hydrocarbons that fuel international travel and trade, nuclear energy to produce electricity, and the reliance on smartphones in our daily lives, the planet's resources have brought innovation and problems and require us to ask questions regarding sustainability. This course will explore the gamut from resource extraction and trading, to its societal consequences including global politics, environmental pollution, and remediation. The course will involve reading of scientific literature, student-led discussions, oral presentations and research projects, and potentially field trips to sites in Southern Ontario. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

ESS199H1 - Earth Science Perspectives on Human Origins

Hours: 24L

Archaeologists and paleontologists depend on earth science to provide the contextual information that is essential to our understanding of human evolution. Among the topics this course will examine are the methods used to determine the age of discoveries, approaches to understanding the environments human ancestors lived in, and how geologists unravel site formation processes. Our discussions will include the role of fire in human evolution, the adaptations of Neanderthals, and the timing of the first appearance of modern humans. The course will be structured around key research localities including Hadar, the Cradle of Humankind, Olduvai Gorge, Wonderwerk Cave, Kebara Cave, Hohlefelds, and Pinnacle Point. The course will involve reading of scientific literature, student-led discussions, oral presentations and research projects. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

FAH194H1 - Public Art: Local and Global

Hours: 24S

We are surrounded by public art, whether in the form of official commemorative monuments or ephemeral (some say illegal) street art. We will examine the history and current practice of this important art form in Toronto and by comparison, globally. The focus will be on discussing the nature, roles, and issues pertaining to contemporary

public art that we can see in situ in downtown Toronto. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FAH195H1 - On Foot: From Pilgrimage to the Mobile City

Hours: 24S

Walking is a basic human activity, yet it also defines and shapes us. In order to understand the permutations of this seemingly simple activity we will look at walking in a variety of contexts through the study of texts, art, movies and the built environment. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FAH196H1 - Marco Polo's World

Hours: 24S

This course explores the visual and material worlds of the Italian traveller Marco Polo, which are described in his *Travels*. Together we will read sections of this text and explore their meaning with respect to the objects and monuments of Marco Polo's time from the regions to which he travelled. By studying cartography, art, architecture, and urban form in the expansive medieval world of Marco Polo, the course will introduce us to the global world of the Middle Ages. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FAH197H1 - Classical Art from Greek Gods to Roman Gladiators

Hours: 24S

The ancient Greeks and Romans lived in a world full of images. Ancient visual culture comprises not only the high arts but also the everyday. This course is meant to introduce students to key ideas about how art and images in general impacted the life of ancient Greeks and Romans. Students will learn to examine various categories of visual material ranging from the pictorial and applied arts (painting, sculpture, architecture) to everyday artifacts (for example, domestic wares, jewelry or weapons). Through a series of discussion-centred

seminar sessions students will explore the interconnections between art and ideology, art and identity as well as visuality and viewing. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FAH198H1 - Shocking Artists, Shocking Art

Hours: 24S

Art causes scandals for many reasons, provoking a range of consequences, including censorship, cuts to government funding of the arts or even destruction of the work in question. In this course we will consider a number of kinds of art scandal arising from exhibition in public galleries and urban spaces, including those that have to do with legal issues such as plagiarism and vandalism; aesthetic objections on the part of the public, ranging from perceived obscenity to simple resentment of abstract art; racism; sacrilege; and political subversion, amongst others. We will consider the work of artists including Chris Ofili, Joep van Lieshout, Paul McCarthy, Damien Hirst, Michael Snow, Sally Mann, Banksy, Rachel Whiteread, Richard Prince, Andres Serrano, Robert Mapplethorpe, Carl Andre, Maya Lin, and Jeff Koons, amongst others. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FAH199H1 - Architecture of Toronto

Hours: 24S

The architecture of Toronto is characterized by artful and influential monuments as well as stylistically incoherent neighbourhoods, vibrant civic spaces alongside dysfunctional infrastructure. This course investigates how Canada's national metropolis came to embody such extremes of architectural richness and urban contradictions. The seminar focuses on how to "read" the buildings of Toronto and think critically about the forces that have shaped city planning, monuments, public space, and concepts of heritage. Readings and discussions will be combined with field trips, research on site or in the archives, and direct engagement with local communities and preservation initiatives. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FCS194H1 - Urban Youth Languages of the World

Hours: 24S

Are there such phenomena as urban youth "languages"? How do they evolve and what commonalities or divergences are there? In this course, we will survey a range of urban youth languages that have emerged in African, North American and European contexts – with specific focus on their structural (linguistic) and social typicalities. Discussions and presentations will focus on the sociolinguistic concepts of language contact, bi/multilingualism, lexical innovation/renovation, language mixing, etc. in relation to youth language practices. We will be comparing major varieties of these language practices within and between the continents, and also be assessing their prospects and implications for language change. This course is taught in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

FCS196H1 - Historical, Geographic and Social Variation in French

Hours: 24S

Throughout most of its nearly 1200-year history, the language that we now call French was not a single linguistic entity, but rather a collection of related dialects. Although socio-political factors resulted in a partial unification of these dialects during the 18th and 19th centuries, the unification was, to a large extent, outweighed by French colonization of areas such as North America and Africa, which resulted in even greater linguistic diversification. The purpose of this course is to provide an overview of the extensive variation that exists throughout the French-speaking world. Topics to be covered include phonetics (pronunciation), lexicology (word selection) and morpho-syntax (grammar). This course is taught in English. No knowledge of French or linguistics is required. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

FCS197H1 - Pleasure, Pain and Nostalgia in Belle Époque

Hours: 24L

This course will explore ideas and cultural representations of 19th century France through examples from art, philosophy, and literature with an emphasis on the critical discussion of two literary narratives that challenged

tradition and authority: Flaubert's "Madame Bovary" and Maupassant's "Bel-ami". The course will be held in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FCS198H1 - The Literacy of Images: Interactions between Text and Other Media

Hours: 24L

How do images create meaning in texts? How do words guide the interpretation of images? This course will examine relations between texts from different literary genres (the Bande Dessinée, fiction and autobiography) and other media (illustration, photography, cinema) through an interdisciplinary theoretical framework, by combining perspectives from literature, cinema, illustration, and photography. The course will be held in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FCS199H1 - Marketing in the French Speaking World

Hours: 24S

This course investigates sociocultural and linguistic issues surrounding market expansion and marketing of products and services to French-speaking audiences in Canada and elsewhere. Students consider challenges posed by increased globalization through comparisons of English- and French-speaking communities, while exploring basic marketing theory. Through case studies of successes and failures, students examine how companies develop and adapt branding and messaging for Francophone audiences by integrating differences in humour, values, politics, and financial considerations. Students thus develop an understanding of the Francophone consumer and gain skills for advertising and branding in a Francophone or bilingual environment. This course is taught in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

FOR199H1 - Trees in Architecture and Urban Design

Hours: 24L

Most depictions of "cities of the future" are a fusion of buildings and forests. Is this happening? If not, why not? This course bridges the disciplines of forestry, architecture, and landscape and urban design to examine the evolving role of trees in human habitations. The course will survey designs incorporating trees on buildings, from the hanging gardens of Babylon to the Bosque Verticale of contemporary Milan, the evolution of urban forestry and urban "green infrastructure", and history and current policy initiatives and debates. The course will involve site visits and guest lectures in the City of Toronto, readings of both popular and scholarly literature, as well as student design projects and presentations. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

Course Experience: University-Based Experience

GER194H1 - Our Vampires, Ourselves (E)

Hours: 24S

Vampires are among the most fascinating figures of popular culture. Since Bram Stoker's *Dracula* (1897) – and, in fact, well before that – they have been haunting the human imagination in various shapes and forms. This course examines the figure of the vampire as a potent cultural metaphor in the German context and beyond, showing how every age embraces the vampires it needs and gets the vampires it deserves. The goal is to teach students to reflect critically and independently on issues of self and society and to develop a structured approach to critical thinking in general. All readings and class discussions will be in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

GER195H1 - Cities, Real and Imagined (E)

Hours: 24S

Cities have been described as places of desire and places of fear. They pulse with life, bringing together people from different class, gender, and ethnic backgrounds, simultaneously giving rise to a sense of freedom and

oppression, a sense of belonging and alienation. This course will explore the city as a physical reality that shapes our lives, but is also a projection of our deepest imaginings. Through readings of philosophical and sociological texts by influential theorists of the city, we will consider various ancient and modern conceptions of urban space and subjectivity. Alongside these theoretical readings, we will also examine literary and filmic representations of the city as a space of desire, memory and power. All readings and class discussions are in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

GER196H1 - "Es war einmal auf Deutsch" - Learning German with Fairy Tales

Hours: 24S

Grimms' Fairy Tales – we all know and love them. But what do we *really* know? Which versions are we familiar with? Most likely not the ones by the Brothers Grimm. And certainly not in German! This course is a journey into the mythical German Schwarzwald, a place of wolves and witches, the realm of the fantastic. It is not a traditional language course, as we won't be cramming grammar and vocabulary, at least not excessively. Rather, we will learn German playfully by reading, analyzing and acting out original folk tales, their Romantic adaptations and modern retellings. In the process we will enrich our understanding of German language and culture. Please note that basic knowledge of German is required to participate in this course (i.e. at least one year of solid high school instruction). Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: One year of German instruction, or equivalent

Breadth Requirements: Creative and Cultural Representations (1)

GER198H1 - Technology and the Human in German Literature and Thought (E)

Hours: 24S

Technology has changed our lives, and scientific knowledge has enhanced human capacities. At the same time, though, this development is also experienced as a threat. Killing missiles, controlling 'Big Brothers,' and monstrous creatures are often considered the flip-side of technological advancement. This course asks: What is the relationship between technology and the "human"? Can there be progress of technology without a regress of

humanity? Or is technology liberating us from the bonds of nature? We will discuss possible answers to these questions by looking at key texts in German literature, philosophy, and cultural history from the eighteenth century to Post-Modernity. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

GER199H1 - The Pleasure of Reading: Reading as Self-Emancipation in the German Literary Tradition (E)

Hours: 24S

In this course we read some of the most enjoyable plots and stories in German Literature and examine how the pleasure of reading sets readers free to re-imagine themselves and the world released from everyday pressures and the repressive weight of the status quo. Readings are all in English translation and include texts by Lessing, Goethe, Schiller, Kleist, Keller, Heine and Kafka. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

GGR196H1 - The Yard: Micro-Geographies of Household Outdoor Spaces

Hours: 24S

A "yard" is the area of land immediately adjacent to a building, often a residence. By examining micro-geographies (that is, detailed empirical studies of a small, specific locale) of these ubiquitous, everyday spaces, the course explores how yards are intimately connected with broader ecologies, cultures, and social relations, all of which can be explored using geographic theories and techniques.

The course also serves as an introduction to other subjects that are relevant to navigating post-secondary life, such as: critical reading; conducting university-level research; presenting and communicating ideas in the classroom; teamwork, and how to benefit from it; and developing social networks.

Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

GGR197H1 - Nature, Conservation and Justice

Hours: 24S

Every day we read about climate change, species extinction, environmental degradation and the need for nature conservation. It is increasingly becoming apparent that the environmental problems that we face today arise from a deeper crisis relating to human ways of viewing and connecting to nature. This course asks how we can rework human ways of relating to nature, while querying the idea of “nature” and questioning the dominant approaches to nature conservation. It asks how can concerns for nature and for other species be balanced with that for human livelihoods and well-being? How can inequalities with regards to the distribution of environmental goods and bads be reduced? How are citizens and communities in the different parts of the world struggling against environmental injustice and to protect their local environments? How do these place-based movement demand justice and what visions do they articulate for a more just and sustainable world? How do indigenous worldviews offer conceptual resources for rethinking nature and our ways of relating to nature? The course will explore these questions using lectures, class discussion, videos and student presentations. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

GGR198H1 - Mobility and Borders

Hours: 24S

This course examines the political geographies of transnational migration. It asks how spaces of migration and mobility are political, and how migration politics are tied to inequalities wrought through intersecting histories of race, class, and gender. It seeks to extend our understandings of migrants, borders, and mobility, and it explores the processes through which mobility is produced, delimited and structured. We will consider the transnational politics of migration, the militarization of border zones, and the political spaces of migrant displacement, dispossession, and dislocation. The seminar readings focus on classical paradigms as well as emerging approaches in immigration studies. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

GGR199H1 - Global Racial Capitalism in the 21st Century

Hours: 24S

This course uses the tools of political economy, decolonial and anti-colonial theory, and critical approaches to the study of racism to explore how the construction of racial categories continues to be integral to the working of capitalist systems. We will explore the reasons why capitalism was never meant to work for everyone by examining how and why racial categories have continued to matter since capitalism's earliest formations. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS190H1 - Freedom Schools

Hours: 24S

This first-year seminar explores radical traditions of education beyond and in resistance to formal schooling. Transnational in scope—and journeying from the late nineteenth century to the present day—we will study the pedagogical innovations and grassroots struggles of anarchic youth, guerrilla intellectuals, and feminist revolutionaries who used education broadly, and historical inquiry in particular, as tools for empowerment and collective liberation. Focusing on primary sources from archives of anticapitalist, antiracist and anticolonial movements, we will investigate traditions of self-teaching and co-learning, genealogies of critical and transformative pedagogies, the construction of decolonial survival and supplementary schools, student mobilizations within and against the university, as well as abolitionist education in our contemporary moment. This course invites participants to interrogate the relationship of education to freedom and justice through collective criticism, self-reflection and creative expression. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS191H1 - Pandemics and Human History

Hours: 24S

We have all just lived through a major historical disruption caused by CoViD-19. In this course, you will be invited to use your experience of the pandemic as a tool for understanding other times, other places, and the study of history itself. We will study plagues and diseases from the ancient world to the Twentieth Century, and introduce methods from social, cultural, and economic history, as well as concepts from the histories of science and medicine. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS192H1 - A History of Queer Asia

Hours: 24S

A first-year seminar on the history of queerness, in all its complexity and diversity, in the no less complex and diverse settings of East, South, and Southeast Asia. Our journey will encompass empires and Indigenous peoples, rulers and rebels, and range from early recorded history down to the twentieth century. Focus will be placed on primary sources and introducing students to the evolving definitions of "queerness" itself. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS193H1 - Calls to Action: The TRC and Residential Schools in Canadian History

Hours: 24S

The last Indian Residential School in Canada closed in 1996. For more than a century and half before that, the Canadian state supported church-run residential schools intended to take Indigenous children away from their families, cultures, languages and traditions. Over 150,000 children passed through the doors of these different schools that operated from coast to coast. Using the formal report of the Truth and Reconciliation Commission as a central text, this course explores that history and the ongoing legacy of residential schools in Canada while introducing first year students to historical research methods and sources. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS194H1 - Power, Resistance, and the Graphic Novel

Hours: 24S

This course will look broadly at the question of power and resistance in the Americas (Canada, the United States, and Latin America) through the prism of graphic novels. Each week we will read a graphic novel related to important historical moments or events, drawing on scholarly articles to help us contextualize the novel. We will discuss the medium of graphic novels, their history and place in the broader culture, as well as how they might help or hinder our ability to study and disseminate information about the past. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS195H1 - Remembering and Forgetting

Hours: 24S

This course introduces students to the interdisciplinary study of history by exploring processes of remembering and forgetting intrinsic to every society. Topics include the ideas of history and memory, memory cultures and narratives and counternarratives and the study of legal trials, museums, monuments, novels and films as popular vehicles of historical knowledge. The course analyzes in particular how the experiences of war and violence have been both remembered and forgotten. The intersection, and dislocation, between trauma and remembrance is a main theme, as is the topic of collective memories in post-conflict societies. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: AMS199H1

Breadth Requirements: Society and its Institutions (3)

HIS196H1 - Religion and Violence

Hours: 24S

This seminar explores the roles of religion in extreme violence. Working backward from the 1990s (Rwanda, Yugoslavia), we will consider cases including Guatemala, Cambodia, Indonesia, the Holocaust, Armenians, German Southwest Africa, and genocide of Indigenous peoples in North America. Students will produce a final project based on original research. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS197H1 - Medieval Medicine

Hours: 24S

This course focuses on the theories and practices of medicine in Europe, c.500-1500, by examining surviving evidence from the period, including (in translation) pharmaceutical recipes, diagnostic guides, doctor's records, treatises on anatomy, surgery and gynecology, commentaries on Hippocrates and Galen, laws and regulations for physicians, university lectures, disputes in court records, satirical writings against physicians, and so on, as well as visual evidence of artifacts, surgical instruments, manuscript illumination/diagrams, hospital sites and design. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS198H1 - Decolonizing Women's History

Hours: 24S

This course introduces students to the historiographical and theoretical debates in women's and gender history from a global perspective, with emphasis on the local histories of women in the non-western world. Students will study the themes in women's history as articulated by first and second wave feminists. The second part of the class deconstructs the basic assumptions of Western feminism through the perspective of post-colonial feminist writings and empirical studies. The readings are structured so that you consider how examples from Asia disrupt narratives of universality in Western feminist epistemologies. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

IMM199H1 - Immunology in the News Today

Hours: 24S

Why do we get sick? How do vaccines work? Does our diet influence our immunity? This course is intended to inspire curiosity about questions generated by immunology concepts that are prevalent in the news today. Different topics will be explored each week including immunity worldwide, human vaccinations and the mucosal immune system. Topics will be placed in context through real-life case studies, immunology virtual laboratory simulation, interactions with faculty members and extensive coverage of the basic science underlying each topic. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

INI100H1 - The City Where Movies Are Made

Hours: 36S

In this course, first-year students will be introduced to film culture in Toronto from a variety of angles, including: a history of the city onscreen (both as itself and as a popular shooting location for American productions); an account of major Toronto filmmaking sites and institutions; introductions to local directors and producers; and

overviews of contemporary local film festival culture (TIFF and beyond) as well as the city's film-critical community. Through a combination of lectures, screenings, field trips and special guest speakers, the students will be moved to consider both the vitality of Toronto's film scene as well as its connections to other aspects of the city. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

INI101H1 - Blogging the Just City

Hours: 36S

An introduction to the concept of the city as a creative environment promoting not only growth and wealth but also social justice, equality, cooperation, and civility. Students will learn to build their own blog to help them to observe, interpret, and reflect upon the process of urban interaction and the relationship between creativity and justice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

INI102H1 - Telling the Stories of the City: Writing Creative Non-Fiction

Hours: 36S

An introduction to creative writing techniques and the personal essay form through which students will explore and develop their conscious connection to the natural-urban landscape. The course will include activities such as field trips, readings, interviews, and journaling to generate the material for personal essays on engagement with nature in the city. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

INI106H1 - Writing Literary Journalism: Telling the Stories of the City

Hours: 36S

An introduction to literary journalism, in which students study the craft of storytelling along with interviewing, reporting, and the journalist's ethical stance. Guest speakers, field trips, writing activities and course readings will help students engage deeply with their environment and develop the skills and sensitivity required for literary

reporting. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

INI196H1 - Environmental Writing

Hours: 24L

From environmental disasters and ecological collapse to climate change denial and celebrations of nature and wilderness, we will explore the diverse ways humans imagine and write about the natural world and the consequences of such writing. We will study a variety of nonfiction texts, images, and videos about ecology, the environment, nature, wilderness, and sustainability as we consider what these terms mean. From the 19th century American transcendentalists to 20th century ecologists, and 21st century scientific, Indigenous, feminist, and anti-racist perspectives, we will analyze the many ways that humans use writing to argue for certain ways of seeing and interacting with our planet and the creatures that inhabit it. Through weekly reading, written reflections, and discussion, students will hone their deep reading, research, and writing skills. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

IRE199H1 - Why We Work: Understanding Work Through the Prism of Art & Culture

Hours: 24S

Why do we work? What does work mean to the average person? These questions are not as straightforward as they appear. We work for the bulk of our lives and most of our days are spent with coworkers who are neither family nor our closest friends, but we often fail to realize how self-defining work really is. This speaks to work's centrality but also to its invisibility in reflective discourse. However, through "popular" representations of work (e.g., such as in story-telling, cave drawings, hieroglyphs, music, writing, painting, television, film, video games, etc.) we can begin to better understand the meaning of work and how this has changed over time. Readings in anthropology, history, economics, sociology and employment relations plus film and art criticism will help us explore these questions from an interdisciplinary perspective; assignments will encourage students to reflect on their own experience of work. Developing strong analytical and communication skills is an important goal of the course. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ITA196H1 - Image and Text in Medieval and Renaissance Italian Culture

Hours: 24L

The course will explore various aspect of the interaction between literature and the visual arts in Italy from the Middle Ages to the end of the Renaissance. The focus will be on the intersection between the literary and visual modes of perception in the works of representative Italian authors from the Fourteenth to the Sixteenth Centuries. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

ITA197H1 - The Fine Art of Murder: Reading Detective Fiction

Hours: 24L

Since its inception in the Nineteenth century, detective fiction has been one of the most popular literary genres, proving adept at both entertaining and shining a critical light on social and political problems. This course will explore the many faces of detective fiction addressing questions such as: Why does crime hold such a fascination for modern audiences? What kind of pleasure do we derive from reading stories that often follow established conventions and rules? What do these novels about crime and punishment tell us about broader social and political issues? Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: VIC197H1

Breadth Requirements: Creative and Cultural Representations (1)

ITA198H1 - Machiavelli and Machiavellianism

Hours: 24L

An examination of Machiavelli's political doctrine in *The Prince* and the development of his ideas in politics, ethics and the arts. Special attention will be paid to the enduring relevance of his legacy in the modern world. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: VIC142H1

Breadth Requirements: Creative and Cultural Representations (1)

ITA199H1 - Italian Fascism and Global Responses: The Dark Side of Italianità

Hours: 24L

After WWI, Italian society faced a political, economic, and moral crisis that resulted in the rise of fascism. Using diverse sources (media, literary texts, movies, architecture and design), this course explores various reactions in Italy and abroad to the rise of Mussolini and the totalitarian State. Why did common people, intellectuals, politicians, and business and community leaders around the globe succumb to the seduction of fascism? How did other people denounce fascist violence? After an introduction to Italian fascism, the course will consider global reactions to Italian fascism and diverse responses in Italian communities abroad (e.g. Canada, USA, Argentina). Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

JCI199H1 - Italians in Canada: Histories, Journeys, Struggles, Successes

Hours: 24L

This course explores the presence of people from the Italian peninsula in what is now known as Canada. The course begins with discussions on Giovanni Caboto's and other explorers' journeys to then focus on contemporary Italian-Canadian communities. This course provides students with the critical tools necessary to understand various historical, linguistic, culinary, spiritual, political, and creative elements of Italian-Canadian identity and life. Students of both Italian and non-Italian heritage are most welcome in this course, which is taught in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

JRC199H1 - Truths & Reconciliations in Canada

Hours: 24S

In this course, we examine the idea of reconciliation among Indigenous and Canadian nations by considering the complicated role of religion and spirituality in "truth and reconciliation." Specifically, residential schools for

Indigenous children were a collaboration of church and state that violently broke the spirit and intent of the treaties—or sacred promises—made between the Crown and Indigenous nations. The course will set the 2015 Truth & Reconciliation Commission of Canada in a longer history of twentieth-century commissions, reports, and petitions in which both Indigenous and Canadian people (and some churches) named the cultural and spiritual genocide of residential schools and called for action. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

JRN199H1 - Exodus and Enslavement

Hours: 24S

Popular conceptions of enslavement in North America have influenced how we frequently imagine enslavement in Exodus and related biblical and related texts from the ancient Near East. Yet, depictions of enslavement in these ancient texts may be strikingly different from our ideas of enslavement in North America. This course explores similarities and differences between enslavement in these different historical contexts. It also examines how biblical texts were utilized in debates over and revolts against enslavement primarily in the eighteenth and nineteenth century. All readings will be in English. No knowledge of Hebrew is required. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

LIN192H1 - Sustaining Indigenous Languages

Hours: 24S

There has been much publicity in recent years about language shift and language loss and, along with it, language revitalization. In this course we examine shift involving Indigenous languages – and particularly those of Canada – from a variety of perspectives, and looking at reasons why one might want to 'save' a language. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN194H1 - The Science Behind Our Accents

Previous Course Number: TBB199H1

Hours: 24P

When we speak, the sound is transmitted through the air as a complex sound wave. How are various speech sounds – vowels and consonants – manifested acoustically? What does it mean, in physical terms, to have an accent? These and other related questions will be explored through computer-based acoustic analysis and perceptual experimentation. Upon completion of this course, students will (i) have overview knowledge of basic acoustic properties characterizing phonetic variation pertaining to speech, and accents in particular, (ii) be able to conduct simple speech production and perception experiments, and write up results in the form of scientific research reports, (iii) begin to read and understand scientific literature pertaining to acoustic phonetic variation and its relevance for communication. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN195H1 - Babel: Language in the Mind of Speakers

Hours: 24L

What is the relation between language and thought? In this course we examine how language is represented in our minds, and how language and cognitive processes interact. While the link between words and meanings is arbitrary and reflects culture, language is considered to be a universal property of our species. We will examine the place of language in the architecture of the mind; the debates about the universality of language structure vs. linguistic relativism; and how language and thought interact in children's development. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN196H1 - Language and Communication

Hours: 24L

We will explore the ways in which information is communicated in conversation. We will consider systematic ways in which what a speaker intends to communicate with language goes beyond what one says in conversation. The goal of the course is to investigate

the ways in which speakers rely on knowledge of language and implicit "rules" to enrich and transform the literal content of someone's utterance.

Students will familiarize themselves with some fundamental concepts in linguistic semantics and pragmatics. They will develop analytic skills necessary to analyze a text in an academic context and beyond. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN197H1 - Language and Social Justice

Hours: 24L

This course explores how language is used to construct and reinforce unjust social structures. Topics may include: the underlying sexism, classism, racism, and ableism of prestige dialects and prescriptive language education; the history and consequences of national language movements; language endangerment, documentation, and revival; sign languages and language rights for the deaf and hard-of-hearing; popular media representations of linguistic variation, especially vocal fry, uptalk, and regional accents; and the relationships between language and sex, gender identity, and sexuality.

Students will develop research, analytic, and writing skills through critique and discussion of assigned texts, independent research projects, and regular written and oral presentation of their work. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN198H1 - Language Diversity

Hours: 24L

There are estimated to be about 7000 languages currently spoken in the world. What do they have in common? In what ways are they different? This course will explore these questions, covering such topics as meaning, sound systems, the structure of words, the order of words in sentences, question formation, concepts such as subject and object, tense systems, pronoun systems. We will also discuss language loss and revival. Students will develop analytic skills as they consult published grammars and other resources to address these issues. Students will share their findings through oral and written presentation. Examples will be drawn from a wide range of languages.

Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN199H1 - Exploring Heritage Languages

Hours: 24L

We will explore how speakers use Heritage Languages in Toronto, using data recently collected in the GTA, so students should be familiar with one of these languages. We will collect, organize and interpret information about heritage languages in Toronto. We will look for speech patterns that differentiate first, second and third generation speakers in Toronto from corresponding speakers in their countries of origin, and look at the effects of cultural and language attitudes and usage.

Students will develop analytic skills as they explore a range of research methods and resources to address these issues. Students will share their findings through oral and written presentation, including online formats. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

MAT193H1 - Women's Mathematics

Hours: 36S

Mathematics has been shaped in significant ways by the work of outstanding female mathematicians such as Hypatia, Emmy Noether, Sofia Kovalevskaya, and Maryam Mirzakhani. Despite these successes, women still experience barriers to entering the field and participating at the highest levels. This course will blend an exploration of mathematics created by women with a study of the issue of women in mathematics. Students will have the opportunity to examine the complex factors that impact women's participation in STEM, learn about the lives of female mathematicians, create their own mathematics, and sharpen their spatial cognition and logical thinking skills. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: High school level algebra.

Exclusion: Not intended for students in a Mathematics Specialist or Major program.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT194H1 - Mathematical Personalities

Hours: 24L

An in-depth study of the life, times and work of several mathematicians who have been particularly influential. Examples may include but are not limited to: Coxeter, Euler, Germain, Grothendieck, Hilbert, Kovalevskaya, Kowalewski, Mirzakhani, Newton, Noether, Ramanujan. Not intended for students in a Mathematics Specialist or Major program. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT195H1 - Mathematics as an Interdisciplinary Pursuit

Hours: 24L

A study of the interaction of mathematics with other fields of inquiry: how mathematics influences, and is influenced by, the evolution of science and culture. Art, music, and literature, as well as the more traditionally related areas of the natural and social sciences may be considered. Not intended for students in a Mathematics Specialist or Major program. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT197H1 - Mathematics as a Recreation, Mathematical Discovery and Creative Problem Solving

Hours: 24L

This course is an exploration into the creative process and use of imagination as they arise in the context of mathematical problem solving, puzzles, and recreational mathematics. The topics for the course may include a study of games, puzzles and problems that require a pre-Calculus background. One of the course's main goals is to hone each participant's creativity and mathematical problem-solving skills while guiding them towards the 'Aha!' experience which accompanies independent discovery. Not intended for students in Mathematics Specialist or Major programs. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT198H1 - Cryptology: The Mathematics of Secrecy and Security

Hours: 24S

How do we send our own confidential information through secure channels, and how can we break codes to uncover the secret information of our adversaries? The mathematical field of cryptology is dedicated to answering such questions. In this course we will study breakthroughs in cryptology, from secret messages in the ancient world and the Enigma cipher in World War II, to modern cryptosystems that facilitate online commerce. Along the way, you will develop a sophisticated understanding of how numbers interact and develop the ability to communicate messages secretly and mathematics clearly. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: High school level algebra.

Exclusion: Not intended for students in a Mathematics Specialist or Major program.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT199H1 - Aha! Mathematical Discovery and Creative Problem Solving

Hours: 36S

This course is an exploration into the creative process and use of imagination as they arise in the context of mathematical problem solving. The problems, which are all at a pre-calculus level, are chosen primarily by the criterion of aesthetic appeal, and emphasize reasoning rather than technique. Still, many of them are quite challenging, and substantial independent thinking will be required, the course is therefore appropriate for students from a variety of backgrounds and disciplines, including hard sciences. Its goal will be to hone each participant's creativity and mathematical problem-solving skills while guiding them towards the 'Aha!' experience which accompanies independent discovery. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: High school level algebra

Breadth Requirements: The Physical and Mathematical Universes (5)

MUN100H1 - Global Innovation

Previous Course Number: MUN101H1

Hours: 24S

Innovation has always been a key driver of economic growth, population health, and societal success. Transformative change has historically been linked to major innovations such as urban sanitation, pasteurization, the printing press and the industrial revolution. Currently, the opportunity to enhance life chances worldwide relies on innovating for the poor, social innovation, and the ability to harness scientific and technological knowledge. What precisely is innovation? When does innovation happen? Who benefits from innovation? How can innovation be fostered, and how do innovations spread? Relying on major global transformations and country-specific case studies (for example, South Korea, Taiwan, Israel and India), this course examines the drivers of innovation, the political, social, economic, and scientific and technological factors that are critical to promoting innovation and addressing current global challenges, and the consequences of innovation. Restricted to first-year students admitted to Munk One. Not eligible for CR/NCR option.

Prerequisite: Admission to Munk One

Breadth Requirements: Society and its Institutions (3)

MUN110H1 - Peace, Conflict and Justice in the Indo-Pacific

Hours: 24S

In recent years, countries including Canada, India, Japan, and the United States have devised Indo-Pacific strategies in recognition of the rising importance of the region. The region now accounts for half of the world's people, 60 percent of world's GDP, and two-thirds of global economic growth. Devising effective solutions for the policy challenges related to the Indo-Pacific will be crucial to prevent catastrophic conflict and promote sustainable prosperity in the 21st century. In this class, students will examine the nature of policy problems with a global scope - in areas such as the management of geopolitical conflict, economic security, and human rights and transnational justice - and devise solutions tailored to emerging challenges in the Indo-Pacific. Restricted to first-year students admitted to Munk One. Not eligible for CR/NCR option.

Prerequisite: Admission to Munk One

Breadth Requirements: Society and its Institutions (3)

MUN130H1 - Climate, Energy, and Power

Hours: 24S

Energy is at the crux of a range of pressing global issues, including climate change and the existential threat it poses across the world. This class uses energy – sometimes as

a focal point, sometimes as an entry point – to examine a range of issues including inequality, emergent technologies and policy making in a global context. Restricted to first-year students admitted to Munk One. Not eligible for CR/NCR option.

Prerequisite: Admission to Munk One

Breadth Requirements: Society and its Institutions (3)

MUN140H1 - Design for Social Change and Inclusion

Hours: 24S

Framed around a design challenge, in this class students work in teams to come up with an innovative, equity-focused approach to a global problem. To this end, the course includes modules on topics such as: collecting primary data (via interviews and/or focus groups); conducting secondary research; identifying beneficiaries' needs; developing a mindset for social innovation; assessing feasibility and viability; and how to develop culturally responsive and relevant propositions. Restricted to first-year students admitted to Munk One. Not eligible for CR/NCR option.

Prerequisite: Admission to Munk One

Breadth Requirements: Society and its Institutions (3)

MUN195H1 - The Economics of Birth, Death and Everything in Between

Hours: 24L

Does welfare really encourage people to have more kids? How do contraception bans affect women's work? Do new immigrants create competition that makes wages drop? Economic demography – applying economic analysis to the study of populations – can help us understand all these questions and more. Among other topics, this class will examine how pension systems, health care, immigration policy and economic growth, marriage and divorce laws and women's labor force participation relate to public policy.

Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)
Course Experience: University-Based Experience

MUN196H1 - Somebody's Watching Me: The Global Politics of Surveillance

Hours: 24L

From security cameras and cell phones, to drones and social media, our data are collected in countless ways. But who controls our data? Do we have a right to privacy? Does mass surveillance make us safer?

This course invites students to explore the global politics of mass surveillance, and the role played by states, big tech, police, activists, and ordinary people. Through in-class discussion and analytical writing assignments, students will engage with surveillance studies through many dimensions, including public policy, human rights, international relations, economics, technological development, and race, class, and gender.

Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

Course Experience: University-Based Experience

MUN197H1 - Strong States or Weak Parties?

Hours: 24L

This course will introduce the study of Europe by exploring the political history of European authoritarianism, and resistance to it, from the 1930s right up to the present day. The accent will be on the present: we will seek to explain the growing appeal of populist authoritarianism seven decades after World War II, the Holocaust, and the defeat of German Nazism and Italian fascism. Are current politics in Europe a matter of back to the future? Or is there something new? Is there one authoritarianism in Europe or multiple?

Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

Course Experience: University-Based Experience

MUN198H1 - Digital Technologies and Human Rights

Hours: 24L

What are digital technologies, exactly? How do we govern them? Do they threaten or protect human rights? In this course, we'll look at the Internet, advanced computing,

'Big Data' analytics, and artificial intelligence – the technologies which form the basis of everything from facial recognition software to home appliances to social media. We'll consider how to govern and use these technologies, and the consequences of those choices for global human rights. Evaluation is based on essays, a presentation, and class participation. There is no exam.

Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)
Course Experience: University-Based Experience

NEW101H1 - The Everyday Politics of Food

Hours: 12L/24S

How often do we reflect on the environmental, social and economic impact of our everyday food choices? This course offers an introduction to the key concepts, terms and theories that underlie our current food system. The course links the food we eat to global forces and considers how these forces affect food distribution, access and consumption. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW102H1 - Exploring Multilingual Toronto

Hours: 12L/24S

How does language connect and divide people, places and communities? This course considers how interactions between people in Toronto are shaped by language as well as history, economy, architecture and urban landscapes. Students engage with the city both in and out of class to think about a range of questions linked to gender and sexuality, indigeneity, migration, race, ethnicity, and public/private space. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW103H1 - Digital Technology and Society

Hours: 12L/24S

While the internet and other forms of digital technology have created new forms of social relationships and

widened access to information, they have also raised concerns. This course explores issues such as surveillance, addiction and bullying as well as the potential of digital technologies (e.g. smart cities, Big Data, and the internet of things). The course engages students' own experience of digital technology. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW104H1 - Creating Community: Art, Identity and Belonging

Hours: 12L/24S

How is art implicated in the process of community building? How does art foster a sense of community identity and belonging? This course explores how communities, in Toronto and beyond, engage a variety of art forms including graffiti, spoken-word, hip-hop, digital art, traditional dance and music to connect people and express community identity. Students will have the opportunity to visit community arts projects. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NEW105H1 - Current Issues Without Borders I

Hours: 12L/24S

This interdisciplinary course addresses a current issue that exemplifies the themes of "Learning Without Borders" in New One. It investigates how this issue is implicated in connecting us with others around the globe; it engages different kinds of knowledge and community perspectives; and integrates students' own experience as related to the issue. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW106H1 - Science, Health and Social Justice

Hours: 12L/24S

How can scientific knowledge and research be mobilized to impact individual and global health? How is health impacted by social, racial and economic inequalities? This course explores scientific research and practice with special attention to the translation of scientific knowledge

in the public sphere, and its ability to inform policies, practices and laws. Students have the opportunity to meet with clinician-scientists, policy-makers, and other professionals connected to the health care system. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW111H1 - Food, Ethics and Sustainability

Hours: 12L/24S

How do we produce and ensure access to nutritious and environmentally sustainable food for all? This course explores what is involved in achieving ethical food production and food security, examining topics such as: the paradox of food waste amidst scarcity, the relationship between food production and climate change, community-led alternatives to dominant food systems, and the role of biotechnology. Research projects allow students to focus on an issue of particular interest. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW112H1 - Language Freedom and Power

Hours: 12L/24S

How do we imagine a balance between the need for communication, freedom of expression, and protection for marginalized groups? This course considers how language shapes and is shaped by the relations of power not only in such sites as colonies, nations and institutions, but also in popular culture and how we communicate online. It explores the key role of language in activism and youth cultures and allows students to focus on an issue of particular interest. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW113H1 - Unpacking Digital Technology

Hours: 12L/24S

What are the social and material implications of the digital technologies we use every day - for the present and for the future? This course explores how digital technologies have been remaking the world and affecting our lives by

tracing their historical development, their social effects, and the impact of their physical presence. It also peers into scenarios of the future in this digital world. Students engage in research on a topic of their own interest. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW114H1 - Art for Social Change

Hours: 12L/24S

How does art contribute to social change? Artistic productions can draw attention to social problems, mobilize support for and symbolize social movements, and inspire new visions for imagined futures. This course will explore case studies of the role of various art forms in relation to past and current social change initiatives. Students will have the opportunity to engage in research on an art project of their choice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NEW115H1 - Current Issues Without Borders II

Hours: 12L/24S

Explores the social and ethical implications of a current issue exemplifying the themes of "Learning Without Borders." Also considers examples of policy and community organizing responses. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW116H1 - Science and Global Threats

Hours: 12L/24S

What is the role of science in addressing current global threats? What are the possibilities and the limitations of scientific research and knowledge in tackling complex problems such as climate change, pandemics and pollution? In this course, students explore these questions by examining case studies, meeting with specialists in various scientific fields, and engaging in research on a topic of their own choice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW197H1 - Public Intellectual Activism: Theory and Practice

Hours: 24S

Explores the role of the public intellectual in modern and contemporary societies from a theoretical and practical lens. Specifically, investigates the interventions of this capital actor of the social fabric in specific historical junctures of the 20th century and the new millennium with the idea of informing a hands-on approach to participation in civil society debates. Students will be encouraged to examine how “marginalized communities” intervene in the public sphere to effect social change. Term work will include the writing and publishing of an op-ed article, blog, social media posts and a podcast interview. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW198H1 - Myths of French Sensuality

Hours: 24S

A study of French cultural history with respect to the French reputation for the indulgence and refinement of all the senses in visual arts, music, cuisine, perfume and fashion. Supporting mythologies are investigated, along with stereotype formation, exoticism and cultural appropriation. Through various research, writing and presentation techniques, including mini-essays, poster displays and pecha kucha, students will explore what is left of this reputation in an era of globalization. No knowledge of French is necessary. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NEW199H1 - We Are What We Eat: The Example of French Cuisine

Hours: 24S

The historical study of French cuisine reveals a culture rich in controversy and conflicting narratives. These include contested origins, court intrigues, sensual delight, revolutions, colonialism and slavery, controversial farm practices, haute cuisine, cuisine bourgeoise, regionalism, European regulation. Through various research, writing and presentation techniques, including mini-essays, wikis and pecha kucha, students will explore what is left of French food culture in an era of globalization. No

knowledge of French is necessary. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NMC195H1 - Rebels, Misfits, and Outcasts in Modern Arabic Literature

Previous Course Number: NMC242H1

Hours: 36S

This course examines modern Arabic literary texts that portray marginalized social figures and groups who have been excluded from a protective system of resources and privileges. Students will read novels and short stories by prominent Arab authors who have represented marginal social groups in their fiction, including representations of the urban poor, the peasantry, the delinquent, the prostitute, sexual minorities, women who reject normative roles, and the political rebel. These fictional texts address issues such as political resistance and rebellion, economic precarity, and social exclusion. Students will engage with these texts by critically examining the role of literature in narrating unspoken and suppressed histories. The class will also introduce students to theoretical modes of literary analysis and interpretation. All texts will be read in English translation. Authors include Mohamed Choukri, Hanan al-Shaykh, Alifa Rifaat, Sonallah Ibrahim, and Arwa Salih. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: NMC242H1

Breadth Requirements: Creative and Cultural Representations (1)

NMC196H1 - Law and Order in the Ancient Near East

Hours: 24S

Are human beings basically evil or good? What creates order in society? Coercion? Religion? Can societies operate without law? This course explores different systems of authority and control through ancient texts, focusing on the very first ideas of law in human history. We examine actual law codes, court cases on real estate disputes and conspiracy to commit murder and rape, as well as alternative means of regulating communities such as ideology, ritual and magic. While most courses on ancient law approach the topic from the perspective of modern concerns, this course situates the first law in its own historical, social and political context. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NMC197H1 - Myth and History in the Bible

Hours: 24S

Reading the Bible is easy, but reading it well isn't. Should we read its stories as history? All of it? Or perhaps only part of it? If so, which parts? And if some parts aren't meant to be read as history, then what are they? Was Jonah really swallowed by a large fish? Did the sun and moon stand still for Joshua? Did Moses really part the Red Sea? Did Jesus really raise Lazarus from the dead? Are miracles necessarily fiction? In this seminar, we will read together many of the most colourful stories of the Bible, sometimes alongside similar stories from the cultural context of ancient Israel, and discuss what genre (history, myth, legend, folktale) they belong to and how this affects our reading of these texts. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NMC198H1 - Iranian Women Reveal Their Lives: The First Generation

Hours: 24S

Persian women born in the late 19th century and early decades of the 20th century grew up in a period of major political, social, and cultural change that impacted women. A course reading, *Memories of a Persian Childhood*, illustrates the important role of the family and childhood experiences in the lives of a first generation of women to have access to a modern education, and step beyond traditional boundaries. Women's personal writings are the main sources we use to learn about female aspirations, hopes and disappointments as well as the challenge of living in a patriarchal society that took for granted that a woman would devote her life to caring for home and family. We will explore how this generation navigated restraints on women in the years of Pahlavi rule (1925-1979) and served as a model of female contribution for a young generation following the 1979 Islamic Revolution. Each seminar will consist of the instructor's introductory comments, a discussion of the assigned readings and an exchange of opinions about the life of women in different environments. The final mark is based on the readings in the course syllabus, the instructor's lectures, and class discussions of assigned topics. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NMC199H1 - Babylon: Fact vs. Fiction

Hours: 24S

The ancient city of Babylon, now a vast archaeological site in Iraq about 100km south of Baghdad, has captured people's imagination up to this day. Who has not heard of the Hanging Gardens of Babylon, the Biblical Tower of Babel, or the sci-fi TV series *Babylon 5*? Yet, how much of that reflects the reality of ancient Babylon? This course will explore the city of Babylon through its texts and archaeology and contrast this data with the way the city has been remembered over the past two thousand years. However, the goal of the course is not only to investigate how myths about Babylon have been constructed throughout the centuries. It will also look at the shortcomings of contemporary academic research on Babylon, and how difficult it is to reconstruct humankind's distant past. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

PHL196H1 - Philosophy, Film, and Social Criticism

Hours: 48S

This course will critically examine the role of cinema in relation to selected topics and themes in social and political philosophy; these will vary from year to year, but may include race, ethnic and cultural 'other'-ness, class, social conflict, citizenship, cosmopolitanism, and human rights. Films will be screened in class and discussed against the background of focused critical and philosophical readings. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

PHL197H1 - Introduction to Philosophical Anthropology

Hours: 24S

Philosophical anthropology is the subject that poses the most fundamental questions about human nature and the human condition. Taking as its point of departure the most up-to-date scientific understanding of human nature, from anthropology broadly conceived, it goes on to inquire, in a disciplined fashion, about the implications of these views for perennial philosophical questions about human rationality, morality, the possibility of progress, the

existence of god and the meaning of life. This course will examine one or more topics in this domain, as a more general introduction to the discipline. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL198H1 - Philosophy of Time

Hours: 24S

The passage of time is a fundamental aspect of human experience: we are born, we grow older, and eventually we pass away. During our lives our experience of the past, present, and future are distinct. We can influence the world in the present and the future, but it does not seem that we can influence the past. We have hopes about the future, memories of the past, and experiences of the present. In this seminar we will explore insights from contemporary philosophy and physics concerning the nature of the passage of time. Questions to be considered may include the following: What does it mean to say that time passes? Does time really pass at all? How do we experience time? Why can we influence the future but not the past? Is it possible to travel backward in time? Is time even real? What is time? Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

PHL199H1 - Ethics and Fiction

Hours: 24S

The goal of this seminar is to investigate selected ethical questions via works of fiction, considering how, and with what effect, fiction functions as an ethical medium. We will reflect on what fiction can teach us about pressing challenges of the human condition; themes to be discussed will vary from year to year, but may include choice and responsibility, freedom, friendship, empathy, integrity, and our relation to the divine and to death. Genres studied may range over novels, short stories, plays, and narrative poetry. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

PHY196H1 - Emergence in Nature

Hours: 24S

The universe is not a rigid clockwork, but neither is it formless and random. Instead, it is filled with highly organized, evolved structures that have somehow emerged from simple rules of physics. Examples range from the structure of galaxies to the pattern of ripples on windblown sand, to biological and even social processes. These phenomena exist in spite of the universal tendency towards disorder. How is this possible? Self-organization challenges the usual reductionistic scientific method, and begs the question of whether we can ever really understand or predict truly complex systems. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: No prior experience with physical science will be required, but familiarity with Grade 10 mathematics will be assumed.

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY197H1 - Modern Physics for the Curious

Hours: 24S

Have you wondered about the origin and workings of the natural world around us? Have you found physical science interesting but inaccessible because it was too full of math and jargon? Have you felt a pull to become more science-literate? If so, this seminar course is for you -- or for anyone interested in understanding more about the universe, including our planet, seen through the lens of modern physics. Ideas on the menu will include: particle physics, space and time, relativity, black holes, quantum physics, unification forces, string theory, and big bang cosmology. The intriguing story of these integrated phenomena unfolds over a wide distance and a long time. Students from diverse academic backgrounds are warmly welcome. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: No prior experience with physical science will be required, but familiarity with Grade 10 mathematics will be assumed.

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY198H1 - Physics at the Cutting Edge

Previous Course Number: PHY289H1

Hours: 24L/12S

A limited enrollment seminar course for First Year Science students interested in current research in Physics. Students will meet active researchers studying the universe from the centre of the earth to the edge of the cosmos. Topics may range from string theory to experimental biological physics, from climate change to

quantum computing, from superconductivity to earthquakes. The course may involve both individual and group work, essays and oral presentations. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: PHY151H1

Corequisite: PHY152H1, MAT137Y1/ MAT157Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY199H1 - Dark Matter and Dark Energy are the New Black

Hours: 24S

It is now 90 years since astronomers found the first evidence for a form of matter that wasn't part of the stars in our galaxies, but rather is "dark" and has a gravitational attraction to ordinary matter. Other lines of evidence lead us to believe that there is six times more dark matter than the ordinary matter we are familiar with. Despite this, we have no credible, direct evidence for what this dark matter might be. It is one of the biggest puzzles in particle physics and cosmology. In the last decade, we have also discovered that something else is going on – the universe appears to be filled with "dark energy" that causes the expansion of our universe to speed up instead of slowdown. We will discuss what we know about the hypotheses of dark matter and dark energy, and the debates about what might really be going on. Are we seeing science in crisis, with a revolution just around the corner, or is this just the "normal science" talked about by Kuhn and other philosophers of science? Participants will be expected to participate in seminar-style discussions, as well as take the lead on at least one topic of discussion. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: No prior experience with physical science will be required, but familiarity with Grade 10 mathematics will be assumed.

Breadth Requirements: The Physical and Mathematical Universes (5)

POL193H1 - First-Year Foundation Seminar: Politics and the Arts

Hours: 24S

A study of political ideas as found in literature, plays, art works and film.

Restricted to first-year students.

Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

POL195H1 - First-Year Foundation Seminar: Settler Colonialism and Enduring Indigeneity

Hours: 24S

This seminar explores the politics of representation in Indigenous multimedia. We study Indigenous cultural productions—memoir, documentary, graphic novel, film, poetry, music, and video games—to examine representations of settler colonialism and how Indigenous peoples endure it.

Restricted to first-year students.

Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

POL196H1 - First-Year Foundation Seminar: The China Challenge

Hours: 24S

China's meteoric rise to great power status has triggered an intense international debate over its global implications. While many analysts see Beijing's rise as posing a threat to global political and economic stability, Chinese leaders have argued forcefully that China's efforts to regain its historic preeminence will result in a 'win-win' outcome for all states. This course will assess the merits of these contending positions through an historical examination of China's 20th century renaissance. The course will begin by tracing the long period of imperial decline in the 19th century, culminating in China's revolutionary rebirth as a Marxist state in 1949. A major focus will be on the Mao-era legacy of revolutionary diplomacy and the foreign policy consequences of its later transformation into a market-authoritarian powerhouse.

Restricted to first-year students.

Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

POL197H1 - First-Year Foundation Seminar: Politics and Sports: Identity, Activism, and Political Economy

Hours: 24S

The course aims to introduce first year students to key themes in political science – power, race, ethnicity, gender, sexuality, class, nationalism, social movements, activism, and political economy – through the lens of sports and those who participate in them.

Restricted to first-year students.

Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

POL198H1 - First-Year Foundation Seminar: Social Justice and the City

Previous Course Number: POL198Y1

Hours: 24S

An introduction to the concept of social justice from an urban perspective. It will highlight how unequal relations of race, class, gender, sexuality, and ability operate through the urban environment, and how these conditions can be contested through political mobilization.

Restricted to first-year students.

Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

PSL190H1 - Biomedical Research at the Cutting Edge

Hours: 24L/6S

Explore the thought processes, logic, motivation, techniques, analysis and impact of recent high-profile publications to gain insight into the enterprise of science. Outstanding scientists present recent high-impact papers, and students will examine the research in depth, focusing on the underlying questions, experimental approach, results and significance. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: SBI4U and SCH4U (Grade 12 University Preparation Biology and Chemistry); permission of Department

Breadth Requirements: Living Things and Their Environment (4)

PSY194H1 - The Psychology of Student Success

Hours: 24S

University life presents students with all sorts of challenges as well as amazing opportunities for learning and growth. While there are many different ways to define a “successful student”, the goal of this seminar is for everyone to develop the knowledge, skills, and mindset needed to make the most of out of the university experience. Students will discover what research in psychological science has to say about facing and overcoming common academic, intrapersonal, and interpersonal challenges, as we cover topics including deliberate practice, imposter syndrome, and belongingness. Students will also learn evidence-based strategies for better managing their attention, energy, and emotions so that they may thrive (rather than just survive) in university. In addition to learning about psychology, students will develop useful skills in scientific literacy, critical thinking, self-reflection, written and oral communication, and teamwork. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY195H1 - The Science of Babies and Children

Hours: 24S

This course will use an interdisciplinary perspective to explore how the infant mind emerges and grows. Topics could include how brain plasticity influences “critical” or “sensitive” periods for learning, or how studying infants’ perception, cognition and behaviour can offer us critical insights into long-standing philosophical questions. Note that specific content will depend on the instructor and will be posted on the Department of Psychology’s Undergraduate Course Information webpage. During the course, students will (1) engage in lively discussion and present their perspectives; (2) use exploratory writing to develop arguments and their understanding of subject matter; and (3) begin to read and summarize scientific research papers in Developmental Psychology. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY197H1 - Rethinking the Human Mind

Hours: 24S

This course will use an interdisciplinary perspective to explore the quirks, achievements, and puzzles of the human mind. Topics could include how technology and tools extend our minds, or the light that our ability (and inability) to reason sheds on human nature. Note that specific content will depend on the instructor and will be posted on the Department of Psychology's Undergraduate Course Information webpage. During the course, students will: (1) engage in lively discussion and present their perspectives; and (2) use exploratory writing to develop arguments and their understanding of the subject matter. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY198H1 - The Psychology of Magic

Hours: 24S

Magicians entertain us with their tricks. What appears as "Magic" is based on fundamental aspects of human psychology: visual and auditory perception, decision making, logic, memory, and verbal abilities. In this class, we will consider and discuss the psychological basis of magic tricks and use magic to explore aspects of psychology. The class will require reading of scientific articles and book chapters as well as watching and analyzing magical tricks. The only prerequisite is a curious and critical mind. The course puts great emphasis on writing and on starting to read primary scientific literature. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY199H1 - Psychology and History of Drug Use

Hours: 24S

This seminar will examine the historical and contemporary use of drugs. Students will be introduced to the general psychological and neuroscientific mechanisms by which drugs affect human behavior, and explore highlights of current research on drug effects in animals and humans. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG195H1 - Alt-Bible: What Could Have Been

Hours: 24S

Why does our contemporary Bible not include any daughters for Adam and Eve or any stories of Jesus as a young boy? What if Enoch was more prominent than Moses or Thomas more prominent than Paul? "The Bible" that we have is not a single book or a simple collection, but something that has grown over time, been the object of contention and argument, and has sometimes been a common ground across traditions. We examine side-by-side writings that have become canonical and writings that once held authority but have not found widespread canonical status, and strive to understand the processes by which we ended up with "the Bible" we have today. Restricted to first-year students. Not eligible for CR/CNR option.

Breadth Requirements: Creative and Cultural Representations (1)

RLG196H1 - Goddess Lessons: Gender, Religion and Pop

Hours: 24S

Is God a woman? How can we get to heaven without losing a piece of ourselves? What does it mean to follow Lesbian Jesus? Pop music provides us with some important – if often surprising – opportunities to think through deep questions. Increasingly, these questions tie together two of our most powerful human categories: gender and religion. This course will consider the diverse interactions between pop, gender, and religion. Examples might include Beyoncé's self-representation as the Yoruba goddess Oshun and Lil Nas X's reinterpretation of the Garden of Eden in *Montero*. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

RLG197H1 - Enchantment, Disenchantment, Re-Enchantment

Hours: 24S

Modernity is associated with disenchantment, secularisation and progress, and has traditionally been understood as the successor to the enchanted, spiritual,

and transcendent worldviews of antiquity and the middle ages. Re-enchantment, a term increasingly encountered in popular and academic contexts alike, demonstrates nostalgia for an enchanted past, a discomfort with the modern narrative, and a desire to recover wonder. This course will examine the history of enchantment through a series of readings taken from literature, philosophy, theology, ranging from Plato to contemporary magical realism. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

RLG198H1 - Dystopia: Religion & Gender in Science Fiction

Hours: 24S

This course will examine the “what ifs” and imagined worlds of ideal utopias and oppressive dystopias through the lens of religion and gender in Margaret Atwood’s *The Handmaid’s Tale* and Charlotte Perkins Gilman’s *Herland*. Because science fiction and utopian/dystopian literature expresses what an author sees as possible or hopes is possible, but also fears is possible, we will consider science fiction as a political and social critique. Themes to be covered include fundamentalism, totalitarianism, the relationship between technology and religion, religion and reproductive rights, and the potential relationship between religion, gender and oppression. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

RLG199H1 - Contagions

Hours: 24S

It is obvious that infections spread through social networks; what is less well known is that forms of human behaviour, including religious affiliation, have network characteristics. This course examines a variety of historical and contemporary contagions to introduce essential concepts in network analysis and the factors that account for the spread of innovation and other forms of human behaviour. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

SDS199H1 - Sexuality at the Intersections

Hours: 24L

This First-Year Foundations seminar will explore sexuality at the intersections of race, gender, class, disability, citizenship status, and geography, among other social relations and processes as a foundational practice in Sexual Diversity Studies. In an intimate seminar setting, students will develop reading, writing, and presentation skills necessary for engaging in Sexual Diversity Studies across a wide array of disciplinary traditions. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

SLA190H1 - Losing It

Previous Course Number: SLA201H1
Hours: 24S

How does one cope with loss, be it a nose, a leg, a pet, a name, a lover, a battle, a fortune, or one’s sanity? Through literary texts from Central and Eastern Europe, we explore the trauma and poetics of losing, and the mechanisms of coping with and compensating for the lost object. Taught in English, all readings in English. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: SLA201H1
Breadth Requirements: Creative and Cultural Representations (1)

SLA191H1 - The Criminal Mind

Hours: 24S

In the mid-nineteenth century, European and American fiction became obsessed with the subject of criminals. This course examines this preoccupation and its literary and social ramifications. We discuss the changing image of the criminal in British, French, Russian and American fiction. Readings by Dickens, Dostoevsky, Balzac, Zola, Poe, Stevenson and Lombroso. Reading and discussion in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA192H1 - On the Road in Eastern Europe

Hours: 24S

This course examines the function of travel within texts and films depicting journeys through Eastern Europe. We will distinguish various types of journeys, the narrative and cultural expectations they imply, and the ways that travel relates to individual identity, raising questions about nationality, race, gender, sexuality, and the Other. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA193H1 - Objects of War

Hours: 24L

An object or a thing always has a collective history. It speaks of the political and the social conditions under which it was made. In this course, objects of war – the material culture of conflict – from the 20th and 21st centuries will be critically and historically examined. How do these objects speak of violence, politics, and culture, but also rewrite and influence the arenas within which they circulate? Some objects include: canned food, drones, the journalists' hotel, helmets, tents. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA194H1 - Utopia Interrupted: Late and Post-Soviet Russian Literature

Hours: 24S

Almost 30 years after the collapse of the Soviet Union, what can we understand about its culture and people, and its impact on the popular imagination in the West? To answer these questions, the course introduces students to canonical literary and cinematic works from the post-Stalin era to the present, with particular attention to the literary and cultural peripheries. Some of the topics will include: Gulag, or Return of the Repressed, Counter-Culture, Space Race, Immigration, Gender, Perestroika, and Putin's Russia. All readings in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA195H1 - Literature and Painting in Russia and the West

Hours: 24S

What makes literature 'visible'? How do the verbal and the visual coexist? This seminar explores the relationship between words and images, texts and pictures through history, in Russia and the West. Special attention will be paid to the figure of the artist. Is it a writer's *alter ego*, the incarnation of creativity, or just a character among others? Literary texts (mainly short stories) from Balzac and Gogol to Chekhov and O. Henry, Maugham and Bunin, Nabokov and Camus will be studied along with the paintings of some major 19th-20th century artists. The comparative dimension of the course will help students contextualize Russian literature and think about its relationship with the Western canon. We will also watch some 21st century films about artists (such as Julie Taymor's *Frida* [2002], Milos Forman *Goya's Ghosts* [2006], and Mike Leigh *Mr. Turner* [2014]). All texts will be in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA196H1 - Russia at War

Hours: 24S

In its long history Russia has fought numerous wars, both defensive and offensive, and these wars have inspired a rich, complex, contradictory poetic response. We examine Russian war narratives starting with the medieval period and ending with the Second World War and including epic poetry, songs, stories, novels, paintings, and films. We will study the depiction of war and the image of the soldier (or warrior) in different genres and time periods, as well as the historical circumstances in which the different works were produced and the respective audiences for which they were intended. All texts will be in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA197H1 - The Imaginary Jew

Hours: 24S

The course examines the genesis and evolution of the image of the Jew, central to all European cultures, from the theology and psychology of Christian anti-Judaism to their reflection in folklore, visual, plastic, and verbal arts, and to the survival of the imaginary Jew in secular forms. Special attention is given to the Jews of Slavic and East European imagination. All readings are in English.

Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA198H1 - The Slavic Grecian Formula: From Ancient Rhapsode to Modern Slav Song

Hours: 24S

Slav singers of heroic tales about war, lust, honour and revenge have made a special contribution to our appreciation of classical literature and mythology. We will compare Slavic epics and African-American rap songs to reveal the connection between Homer's *Iliad* and Nas's iconic *Illmatic*, between the mythical image of the pagan goddess Aphrodite and the mystique of Nicki Minaj, Lauryn Hill, and other iconic singers today. As we read *The Iliad* closely, we will study songs from the Russian, Bosnian Muslim, Croatian and Serbian traditions. Employing new performance formulaic theory, we will learn that they share much, in melody and message, with the work of today's hip-hop artists, whose roots of rap "flowing" reach back to the beginnings of Western literature and the epic singers of ancient Greece. Students will have the opportunity to interact with a unique online multimedia edition of an epic song by a traditional Slavic singer.

No knowledge of languages other than English is required. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA199H1 - Invisible Kingdom, Imaginary Space

Hours: 24S

The Central European Region of Galicia gave rise to a remarkable array of literary representations -- Austrian, Jewish, Polish, and Ukrainian -- animating fantastic creatures, powerful myths, deviant pleasures, and sublime stories. Bruno Schulz created shimmering peacocks, Leopold von Sacher-Masoch seized ecstasy through pain, and Ivan Franko investigated the effects of avarice and social decay. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SMC155H1 - SMC One: The McLuhan Seminar in Creativity and Technology

Hours: 12L/12S

This seminar is an interdisciplinary exploration of the relationship between creativity and technology. Inspired by the innovative thinking of Marshall McLuhan, it explores how the humanities relate to other fields of thought and research in addressing the individual, social and cultural experiences and effects of technological innovation. This course may include a compulsory travel component (location to be determined based on travel restrictions). (An ancillary fee of \$1,750 is required to help cover a portion of the travel costs.) Not eligible for CR/NCR option.

This course is restricted to newly admitted Faculty of Arts and Science students accepted to SMC One. Applications are due before the end of April (deadline subject to change). Apply via the JOIN U of T website.

<https://stmikes.utoronto.ca/program/smc-one-mcluhan-seminar>

Prerequisite: Admission to SMC One
Breadth Requirements: Creative and Cultural Representations (1)

SMC165H1 - SMC One: The Boyle Seminar in Scripts and Stories

Hours: 24L/12S

This seminar introduces students to university-level studies through an interdisciplinary exploration of Celtic influences in the mediaeval world, with a particular focus on early books and historical artifacts as physical objects and bearers of meaning. Students will learn how to read and analyse these books and artifacts to decode their meanings, and, in support of that, take introductory language instruction in Latin and Irish. Subjects discussed will include intercultural encounter and dialogue, research methods with historical sources, and the relationship between the written word and lived experience, then and now. A co-curricular, optional travel opportunity to Dublin, Ireland may be associated with this course. If the trip is offered and you choose to go, an ancillary fee of \$1,750 is required to help cover a portion of the travel costs. Not eligible for CR/NCR option.

This course is restricted to newly admitted Faculty of Arts and Science students accepted to SMC One. Applications are due before the end of April (deadline subject to change). Apply via the JOIN U of T website.

<https://stmikes.utoronto.ca/program/smc-one-boyle-seminar>

Prerequisite: Admission to SMC One

Breadth Requirements: Creative and Cultural Representations (1)

SMC185H1 - SMC One: The Christianity, Truth and Reconciliation Seminar

Hours: 24L/12T

This seminar critically explores the complex relations of Christianity and Indigenous peoples of Turtle Island, with a special focus on education. Sample topics include: settler colonialism and treaty relationships; prominent Indigenous Christians, critics and reformers; the residential school system; the Truth and Reconciliation Commission of Canada; recent initiatives in ecclesial repentance, dialogue, and enculturation. The course includes guest speakers and compulsory co-curricular activities, including travel to residential school site(s) and archives in Ontario during the fall reading week. The costs of these activities are supported by the University of St. Michael's College. Not eligible for CR/NCR option.

This course is restricted to newly admitted Faculty of Arts and Science students accepted to SMC One. Applications are due before the end of April (deadline subject to change). Apply via the JOIN U of T website.

<https://stmikes.utoronto.ca/program/smc-one-christianity-truth-reconciliation-seminar>

Prerequisite: Admission to SMC One

Breadth Requirements: Thought, Belief and Behaviour (2)

SMC188H1 - SMC One: The Gilson Seminar in Faith and Ideas

Previous Course Number: SMC188Y1

Hours: 12L/12S

This seminar is an interdisciplinary exploration of leading scholarly, intellectual and public questions related to ecology, science, literature, and public life. From a variety of perspectives, the seminar considers how religion, and how different kinds of religious experience, figure in the broader context of human affairs. Not eligible for CR/NCR option. Enrolment in SMC188H1 will automatically enroll you in SMC189H1 at the departmental level. The department will enroll you in SMC189H1 before the start of the term.

<https://stmikes.utoronto.ca/program/smc-one-the-gilson-seminar-in-faith-and-ideas>

Breadth Requirements: Thought, Belief and Behaviour (2)

SMC189H1 - SMC One: The Gilson Seminar in Faith and Rome

Previous Course Number: SMC188Y1

Hours: 24L

This course provides an intensive international learning experience in Rome, Italy. It offers contemporary and historical models of integrating faith with reason, and religious practice with intellectual, creative, and public engagement, specifically the roles that the Catholic Church and Vatican play in Rome, in ecology, science, literature, and public life. This course includes a mandatory travel component to Rome, Italy, which takes place following the Winter term exam period. An ancillary fee is required to help cover a portion of the travel costs. Not eligible for CR/NCR option.

<https://stmikes.utoronto.ca/program/smc-one-the-gilson-seminar-in-faith-and-ideas>

Prerequisite: SMC188H1

Breadth Requirements: Creative and Cultural Representations (1)

SMC195H1 - God and Money in the Middle Ages

Hours: 24S

This seminar considers the ethical, political, and spiritual questions arising from the existence of wealth and poverty in medieval European culture. With readings from Dante, Chaucer, Thomas Aquinas and others, the course will examine how the interaction of spiritual ideals and material realities shaped cultural developments from late antiquity to the Protestant Reformation. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

SMC196H1 - God and the Poets: Lyric Form in the Christian Tradition

Hours: 24S

This course will develop the skills fostered by the close reading of poetry by exploring how the most sophisticated forms of language have been used to address the highest possible subjects in the Christian literary tradition. With readings in English, we will survey poetry in a range of

languages and forms, giving particular attention to how, in lyric poetry, poets have addressed themselves to God—from devotion to desperation, ecstasy to outrage, tenderness to terror. In addition to building the necessary skills for reading, describing, and analyzing poetry, this course will also develop other research skills. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SMC197H1 - The Sistine Chapel: History, Imagery, Usage

Hours: 24S

The Sistine Chapel in Rome is a historical artifact, an artistic monument, and a house of worship—at once recognizable and mystifying. This seminar explores fifteenth-century origins, decoration by some of the most accomplished artists of the Italian renaissance, and continuing use (especially the election of popes). Topics will include: art and patronage, rhetoric and ritual, controversial restoration, and the Sistine Chapel in popular culture—with an emphasis on the close analysis of the major frescoes. The seminar will develop the academic skills needed for the analysis and discussion of texts, paintings, and ritual events. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SMC198H1 - How to Study Video Games

Hours: 36S

Games and play are a fundamental part of human society, and today digital games occupy a central place in popular culture, media industries, and the imaginations of players around the world. This seminar introduces students to the growing academic field of game studies, with an emphasis on close analysis of specific games as cultural objects. Through lectures, discussions, and in-class play sessions, students will build a critical vocabulary and toolbox of techniques for understanding the unique formal, aesthetic, narrative, and thematic properties of games in a variety of platforms and genres, and develop basic academic reading, writing, and research skills. No previous experience or expertise with video games is required to take this course. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SMC199H1 - Intelligence, Artificial and Human

Hours: 36S

What is human intelligence? How close are we to replicating it? How productive/reductive is the brain-computer analogy? What ethical challenges are posed by AI on workers, society, and the environment? Can we put a hold on "progress"? Is Silicon Valley the seat of a new techno-religion? What can they teach us about today's research priorities? What insight (or inspiration) can we get from works of science fiction about the future of human-AI interaction? Through reading discussion, written assignment, and workshops, this seminar will present students with the opportunity to integrate their computer science interests with philosophy, history, and literature. *There is an equivalent course offered by the Department of Computer Science. Students may take one or the other but not both.* Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: [CSC199H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC196H1 - Introduction to Arab Majority Societies

Hours: 24L

This course has two goals. It aims to familiarize students with current challenges and dynamics within Arab societies. It seeks to help students develop a critical perspective on prevalent analytical frameworks such as culturalist, orientalist analyses applied to the region. To achieve this, we will use a controversy, conflict, or current event as an entry point to illuminate one or more dimensions of the society we are studying. The countries studied will vary from session to session to reflect the socio-economic, cultural, religious, and political diversity of the region, as well as the common challenges facing these countries. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

SOC197H1 - The Courses of Lives, Histories, & Futures

Hours: 24L

This course will explore how changes in technology, economy, ecology, culture, and other factors shape how individual lives and social relations tend to unfold. Much of the research and theory that social scientists have produced on the "life course" has focused on how historical events and trends, such as war, economic

depression, and trends in family-life have re-shaped life transitions and aging. Those latter changes in turn lead to broad social changes that influence subsequent generations in new ways. In this course we will not be solely concerned with changes in and from the past. We will also keep an eye on the future, and ask how technological changes related to bodies, such as genetic engineering and bioelectric implants, might alter the trajectory of lives and social relations of future generations. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

SOC198H1 - Explaining the Persistence of Racialized Inequalities

Hours: 24L

Why are Black and other racialized groups comparatively more disadvantaged than people racialized as White? Although race is a social category, it has profound effects on our life chances and opportunities. Explanations for and strategies to address racialized inequalities have long been debated. Emphasizing sociological perspectives, this course highlights and presents explanations for ongoing racialized inequalities across various social institutions, in opportunities for advancement, and in everyday social interactions. More specifically, this course will discuss racialized inequalities in the following areas: poverty and wealth, the labor market, the educational system, the criminal justice system, health, neighborhoods and housing, the political process and representation, and social interactions and relationships. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

SOC199H1 - Living Together Differently in the 21st Century: Israel as a case study

Hours: 24S

How can people with different worldviews and dissimilar moral visions live together? Liberal philosophers have grappled with this question offering solutions including tolerance, peace, and multiculturalism. However, many people today, particularly in the West, oppose liberalism as a cultural message and a political goal. Powerful evidence can be found in the rise of "populist" backlash movements and the sharp polarization between liberals and conservatives. Can Western democracies overcome this crisis? This seminar explores this question from a sociological perspective with Israel as a case study. We will probe the efforts of Israeli activists and professionals to instill non-liberal peace among Jews and Arabs, to

bridge the chasm between liberals and conservatives, and to include LGBTs and people with disabilities as equal members of society while surpassing liberal principles. By analyzing their work, we will broaden our understanding about living together differently in the 21st century. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

SPA195H1 - Barcelona

Hours: 24L

A deep dive into the modern experience of one of the world's most compelling cities, this course considers Barcelona from a multidisciplinary perspective that includes study of its architecture, foodways, politics and response to mass tourism. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SPA196H1 - Class and Work in the Americas

Hours: 24L

This course examines economic and social inequalities in the contemporary Americas. We look at the ways in which class divisions are represented in academic studies, literature, film, and television. From Mexican *maquiladoras* to indigenous reservations, we consider the global poor and how recent changes in the character of work (automation, outsourcing, free trade zones) have had an impact on class divisions, especially for younger members of society. Can a renewed understanding of class and work help us to negotiate power, privilege, and inequality in this century? Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SPA197H1 - Cervantes and Imperial Spain

Hours: 24L

During the lifetime of Miguel de Cervantes, the Spanish monarchy governed an empire that extended across the globe, from its traditional lands in Europe to colonies in the Philippines and the Americas. We will examine the advantages and cost of imperial rule through reading a

selection of Cervantes's works. Discussions will centre on such questions as the social impact of imperial wealth, the disruptive role of soldiers in civil society, contact with non-European cultures and the sub-cultures of Spanish society. Students will be introduced to the University of Toronto's outstanding resources for studying the literatures and cultures of early modern Europe. Readings will include some of the Exemplary Stories and selected episodes of *Don Quixote*. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SPA198H1 - A Brief History of Love in the Western World

Hours: 24L

This course introduces students to the ways in which the foremost thinkers in the history of the Western world (Plato, Ovid, St. Augustine, Ficino, Ebreo) conceived the idea of love; how did the notions of sexuality and gender play into that idea, and how did these notions carry on – or not – into our present understanding of love, sexuality and gender. While the background readings pertain to the general Western cultural heritage, the literary texts through which we will observe particular applications of the theories of love were produced by some of the outstanding 16th and 17th century Spanish authors (for ex. Rodríguez de Montalvo; Jorge de Montemayor; Miguel de Cervantes; Tirso de Molina, María de Zayas, Sor Juana Inés de la Cruz). All the readings will be in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SPA199H1 - More than Nachos and Tequila: Mexican History and Culture

Hours: 24L

This course aims at studying the rich history of Mexico from an interdisciplinary perspective. We will cover a wide range of issues, such as identity, modernity race, immigration, gender, sexuality, globalization, and iconic figures. The issue of identity as construed from the inside, but also from the outside and particularly from the English-speaking world (i.e. current US presidential views on the wall), will be widely examined. Course materials will range from chronicles of conquest to modern reflections and representations by historians, philosophers, filmmakers, musicians, writers and artist, among others. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

STA197H1 - Thinking Better with Statistics

Hours: 24S

This course explores how our statistical intuitions and ways of thinking can let us down. There's no need to be a math whiz to be a better statistical thinker. Everyone can become a more critical consumer of claims presented in media, advertisements and by politicians—especially those relevant to our own health and wealth. This course uses real-world examples and tours common and avoidable statistical traps and tricks. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

STA198H1 - Probabilities Everywhere

Hours: 24S

This course examines the meaning and mathematics of probabilities, and how they arise in our everyday lives. Specific topics may include: the nature of coincidences, the concept of luck, games involving dice and cards, long run averages in casinos, margins of error in polls, the interpretation of medical studies, crime statistics, decision making, pseudorandomness, and Monte Carlo algorithms. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Grade 12 Mathematics

Breadth Requirements: The Physical and Mathematical Universes (5)

STA199H1 - Statistical Evidence: Truth or Myth?

Hours: 24S

This course explores the impact Statistics has made and continues to make on everyday life through science, law, and the modern methods for information processing. Statistical principles will be illustrated using examples from real life including business, romance and health. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

TRN125Y1 - Contemporary Issues in Health Science

Hours: 48S

Can the immune system be strengthened? Are some diseases incurable? What is the best way to stop the spread of a virus? This course examines the scientific principles underlying contemporary issues in the science of human health with the goal of exposing students to the current state of biomedical research. We will develop three distinct types of understanding that are essential to literacy about the science of human health: the basic concepts in science; the nature of scientific research; and the rules that govern how scientists do their work. This course will explore topics such as stem cells, gene editing, regenerative medicine, vaccination, drug development, and personalized medicine. Restricted to first-year students admitted to the [Trinity One Program](#). Not eligible for CR/NCR option.

Corequisite: [TRN225Y1](#)

Breadth Requirements: Living Things and Their Environment (4), Society and its Institutions (3)

TRN135Y1 - Science and Social Choice

Hours: 48S

Many of the decisions we make as a society rely on advances in scientific knowledge. In this course, we will discuss a number of contemporary medical topics that involve complex scientific discoveries about health, the human body, disease, and infection. We will consider genes and study the medical implications of our growing understanding of the human genome. We will study a number of recent cases in order to explore how scientific findings influence decision-making in hospitals and the selection of social policies. We will also discuss the background forces that shape medical research and how this affects the kinds of health problems that are prioritized. The objective of this course is to develop a solid understanding of biological concepts related to human health and consider them in their wider social and ethical contexts. Restricted to first-year students admitted to the [Trinity One Program](#). Not eligible for CR/NCR option.

Corequisite: [TRN136Y1](#)

Breadth Requirements: Living Things and Their Environment (4), Society and its Institutions (3)

TRN136Y1 - Canadian Health Policy in the Global Context

Hours: 48S

In this course we consider when our health policies support the highest standards of medical care, consistent with the latest discoveries in medical research. We examine the ways in which debates around ethics, effectiveness and efficiency shape global and national health policy. We begin by exploring the most important advancements in global health policy over the past two decades. We then assess Canada's experience in providing health care, identifying lessons for national policy reform and for Canada's role as a leader in global health research and policy. We explore a range of health challenges including universal health care, anti-microbial drug resistance, HIV AIDS, tuberculosis, reproductive, maternal, newborn and child health, cardiovascular care, oncology, environmental health, indigenous health, violence against women and mental health. Restricted to first-year students admitted to the [Trinity One Program](#). Not eligible for CR/NCR option.

Corequisite: [TRN135Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN140Y1 - Ethics, Humans, and Nature

Hours: 48S

This course introduces students to ethical issues arising from the way humans interact with nature. Students will study some theoretical approaches for evaluating how human society affects the planet, ecosystems, and the other animals. Theories will be drawn from philosophy, theology, and ecology, and will include Western and non-Western approaches to living in harmony with one's environment. Key themes may include speciesism – the idea that human needs are the most important – as well as overpopulation, extinction, vegetarianism, and responsible resource management. The course will also look at how social policy shapes human choices and whether sustainability initiatives should be pursued through the public or private sector. The course will also discuss the spiritual connection between humans and the environment and how society can be organized to promote access to nature in urban communities. Restricted to first-year students admitted to the [Trinity One Program](#). Not eligible for CR/NCR option.

Corequisite: [TRN141Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN141Y1 - Environmental Science and Pathways to Sustainability

Hours: 48S

This course introduces students to fundamental issues in environmental science with a multi-disciplinary focus on human impacts on physical and biological systems, and on identifying pathways to sustainability. Key themes will include energy and resources, climate change, land use, contaminants and protecting biodiversity in the context of the Anthropocene. The course challenges students to apply the scientific method to environmental monitoring, research and problem solving through project design, data collection and analysis. The course also emphasizes information literacy, skills to distinguish science from pseudo-science, and considerations around representation of environmental science in the media. Restricted to first-year students admitted to the [Trinity One Program](#). Not eligible for CR/NCR option.

Corequisite: [TRN140Y1](#)

Breadth Requirements: Living Things and Their Environment (4), The Physical and Mathematical Universes (5)

TRN150Y1 - National versus International

Hours: 48S

The international system today faces extraordinary challenges. Understanding these challenges requires understanding the past. This seminar course briefly reviews the origins and development of the international system from the 17th century through the age of empires and the great wars of the 20th century. It then concentrates on the clash of nationalism with internationalism in the world since 1945, looking at such issues as what drives nationalism and what alternatives there are to it. We will study ideas and ideologies as well as the institutions that make up the current geopolitical world. Restricted to first-year students admitted to the [Trinity One Program](#). Not eligible for CR/NCR option.

Corequisite: [TRN151Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN151Y1 - Global Governance

Hours: 48S

Terrorism, the proliferation of arms (including weapons of mass destruction), environmental degradation, globalization, technological change, and the rise of non-state actors all pose challenges to statecraft and the management of global order. This seminar course explores the changing dynamics of global politics and the responses to them by states (and others). Topics will include an examination of new forms of international collaboration that have developed in the wake of crises in

the years following the Second World War. Restricted to first-year students admitted to the [Trinity One Program](#). Not eligible for CR/NCR option.

Corequisite: [TRN150Y1/ TRN152Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN152Y1 - Justice & Global Conflict

Hours: 48S

Modern states face both new and familiar challenges to protecting national security. National insecurity threatens a country's capacity to protect the well-being of its citizens while at the same time participating in international organizations and treaties. This course explores the origins and management of international conflict from the 17th to the 21st century, focusing on the precursors to war and the markers of peace. We will also consider the ways in which our current global world order promotes and preserves justice between and within nations. Students will consider different theoretical approaches to justice between nations, and apply them to recent security issues. By studying the history of conflict and the difference between justice and injustice students will gain a deeper understanding of how current geopolitical actors can structure and affect the prospects for security policy reform moving forward. Restricted to first-year students admitted to the [Trinity One Program](#). Not eligible for CR/NCR option.

Corequisite: [TRN151Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN160Y1 - Public Policy and the Public Good

Hours: 48S

This course examines the sense of the public good that undergirds Canada's domestic and international obligations. We examine the notion of the "public" through investigating possible answers to a central political question: what is the purpose of government? Drawing on readings in philosophy and political theory, the course considers a variety of approaches to defining the nature of the public good and how policy makers should respond when competing goods (e.g., freedom and security) clash with each other. In addition, the course looks at the treaties and conventions that articulate the responsibilities of signatory nations regarding challenges such as climate change mitigation, refugee resettlement, and foreign aid. Students will learn how international agreements either compel or encourage participation and multilateral

cooperation in the absence of robust enforcement mechanisms.

Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN161Y1/ TRN162Y1

Breadth Requirements: Society and its Institutions (3), Thought, Belief and Behaviour (2)

TRN161Y1 - Making Public Policy Work

Hours: 48S

How do we know what kinds of public policy will work and what will not? How do we assess the effectiveness of a policy? An historical examination of ways in which Canadian governments have addressed a range of policy problems. Case studies of areas of federal and provincial activity today. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Trinity One

Breadth Requirements: Society and its Institutions (3)

TRN162Y1 - Political Economy and Social Inequality

Hours: 48S

What is the relationship between capitalism and democracy? How can understanding rational choice theory inform public policy? This course will introduce students to the methods of studying the interplay between economics and politics. We will focus on specific topics to guide our quantitative analysis, which may include intergenerational poverty, the transfer of wealth, efficiency, and social stratification. We will analyse empirical results while developing critical skills for interpreting economic data and research. The course also considers global economic dynamics, transnational governance regimes, as well as the political-economic dimensions of setting global policies. By the end of the course, students will have a better understanding of global political economy, and its connection the fields of international relations and public policy.

Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN160Y1

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN170Y1 - Ethics and the Creative Imagination

Hours: 48S

A seminar course that explores ethical issues through the study of works of the creative imagination that pose or provoke questions of right and wrong, good and evil, justice and injustice. The selected works will be drawn from such fields as literature, film, and the visual and performing arts. Open only to students admitted to Trinity One. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Trinity One

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

TRN171Y1 - Ethics and the Public Sphere

Hours: 48S

What does it mean to be morally required to do something? What rights do we have over ourselves, our bodies, our privacy, our choices? In this course, we will read texts from philosophy, history, political science, cultural studies and beyond that engage with the theme of ethics in the public arena. These will provide valuable analytic tools as we go on to confront contemporary issues that raise urgent ethical questions. Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN172Y1

Breadth Requirements: Society and its Institutions (3), Thought, Belief and Behaviour (2)

TRN172Y1 - Ethics and the Law

Hours: 48S

What is the relationship between moral values and the law? What role does the law play in enabling people to live better lives? Are legal institutions and actors subject to higher ethical standards? In this course we will read texts from legal theory and political philosophy to try to explain the connection between ethics and the law. This will provide the basis for thinking about some historical and contemporary legal cases, as well as ethical issues judges, lawyers, and lawmakers face in their professional roles. Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN171Y1

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN191H1 - Disaster and Terrorism: Religion and Ethics at Ground Zero

Hours: 24S

In response to contemporary terrorist attacks and natural disasters, many are led to cry, "The world will never be the same!" How should such statements be evaluated? What impact do they have on social and political life? This course explores religious and cultural responses to human tragedy and cultural shock. Discussion will attend to debates over the meaning of suffering, public reactions to terrorism, the traumas of natural disasters, and the role of media in covering such events. These themes are engaged from the perspectives of ethics, cultural theory, religious studies, and theology. The course focuses on popular responses to events that include: the Lisbon Earthquake of 1755, the First World War, the Holocaust, Hurricane Katrina, the Japanese experiences of Hiroshima and Fukushima, 9/11, and more recent examples of terrorism and disaster. Attention will be given to concerns such as the impact of trauma on social and political debate, the function of religious discourse in the face of tragedy, the nature of ideology, and the relationship between religion and violence. A thematic concern throughout the course will be the nature of ethical commitment in the midst of confusion and social disruption. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

TRN192H1 - Public Health in Canada: Health for the 21st Century

Hours: 24L

This course deals with preventive care and population health. It will also move into new areas like healthcare and the environment (climate change) and the greening of healthcare. It will look at health as an extension of democracy – of how health extends individual rights beyond the political realm to the social realm, of how it can build social capital and knit populations together. It will look at areas inimical to health, 'detriments to health' and how economic inequality can lead to health inequality. Along with this it will look at ways of empowering the individual, the public as agent and a role of public engagement by major institutions. It will also push beyond the popular determinants of health to engage students in a paradigm on next steps, the future challenges in

population health. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

TRN193H1 - Canadian Health Policy: Past, Present and Future

Hours: 24L

This is a health systems course. It deals with illness care, individual health, and health insurance. It will take a comparative and historical approach. We will look at the genesis of Canadian healthcare, our benefits and those other countries provide (e.g., pharmacare, dental care). We will look at indirect contributors like childcare and basic income. We will examine the public-private debate. We will also take some novel approaches. One is that the university has an expanded role in the 21st century, one that involves public outreach, a role that includes healthcare. Recent academic literature on healthcare notes that it is nation-building. We will look at why. We will examine some cutting-edge ideas, like integrated care, the learning health system, the concept of customer-owners. We will explore whether our healthcare system needs to be anchored by 'institutions of excellence' and identify these. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

TRN194H1 - Literature and Wicked Problems

Hours: 24L

This course explores contemporary literature in relation to the interdisciplinary framework of "wicked problems." Research emphasizes that complex, entrenched problems, like government relations with Indigenous peoples or human impacts on the climate, involve interconnected systems and require approaches that cross disciplines and types of knowledge. The course examines the role of literary works (mostly 21st-century fiction) in addressing these issues of pressing concern to students as global citizens. Critical thinking, scholarly reading and database research are foundational skills that this course strengthens in order to prepare students for their writing in disciplines across the university. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

TRN195H1 - The Literature of Heroes and Horrors

Hours: 24L

This course explores contemporary literary works that redefine heroism in light of personal and cultural trauma. What does recent literature (mostly 21st-century fiction) show us about the nature of heroism in our time? To answer this question, the course examines theories of psychological trauma, studies in the field of positive psychology, and research on gothic and dystopian literature. Critical thinking, scholarly reading and database research are foundational skills that the course strengthens in order to prepare students for their writing in disciplines across the university. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

TRN196H1 - Joy and Resistance in Diverse Storytelling

Hours: 24L

"Can we speak about joy for once?" In contemporary literature from Black, Indigenous and People of Colour (BIPOC) authors across Canada and Turtle Island, there is a resurgence in diasporic stories that capture the joy and resistance of carving space for community against the mechanisms of the state. This course explores how BIPOC literature has intersected with social problems and activist movements, creating spaces for readers to reflect on their own lived experiences. Students will expand their creative thinking, critical reading and scholarly writing skills through multi-modal assignments that offer connections to current issues and community knowledge. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

TRN197H1 - In the Shadow of the Vikings: Depictions of the Early Norse in Medieval, Modern, and Post-Modern Culture

Hours: 24L

Although rarely attested during the historical era when they were active, since the early nineteenth century the word "Viking" has been popularly applied to describe groups of Scandinavian adventurers who marauded along

the frontiers of Medieval Europe: in this respect, the image of "the Viking" may be regarded as much a modern, as it is a medieval, creation. The legacy of historical "Viking activities" was a factor in the development of modern nation states in Scandinavia and the Baltic region, and their contributions to the heritage of people residing in Britain, continental Europe, the Middle East, and even the Atlantic coast of Canada have been and continue to be cited to the present day. Aspects of culture attributed to "the Vikings"—their assumed independence, courage, resourcefulness, and tenacity in the face of adversity, as well as the occult characteristics of their cosmology—have, for better and worse, inspired modern artists, writers, composers, intellectuals, explorers and even political leaders, and persist in present day literature, art, music, sport and popular culture as well. Why and how do elements of historic Viking culture continue to evoke traditions and characteristics popularly attributed to "the Vikings"? What are some implications of "Viking-ness" for those people in the post-Viking Age past and/or present who we may regard—or may regard themselves—as the "cultural descendants" of the Vikings? In this seminar, participants will study selected cultural artifacts of the "post-Viking Age," along with recent multidisciplinary research, to observe how various "post-Viking Age" cultures and subcultures have selectively appropriated elements of the "Viking" past. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

TRN198H1 - The Viking Phenomenon: Commerce, Conflict, and Communication along Europe's Frontiers, 7th – 15th Century

Hours: 24L

Perspectives on the impact that the Scandinavian raiders and traders popularly referred to as "Vikings" had on European and World history continue to develop as the work of historians, archaeologists, linguists, and scientists expands our understanding of the past. Recent research has revised the traditional view of the "Vikings" as primarily marauding warriors; in its place, a more complex and nuanced conception of the implications that "Viking activity" had on the social, economic, and political development of the peoples with whom they came in contact has emerged. This seminar will consider the relationship between the traditional conception of the "Viking warrior" and recent research that suggests the broader impact that the "Viking Phenomenon" had upon the economic revival and sociopolitical development of medieval Europe and its frontiers. In the course of the seminar, we will examine a selection of historical records and information concerning artifacts of the material culture of "The Viking Age" in order to better understand the activities of early medieval "Vikings," not only as warriors,

but also as agents of commerce, explorers, pioneers, and rulers. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

TRN199H1 - Classical Social and Political Thought from the 18th Century Enlightenment to the 20th Century

Hours: 24L

We begin with European social and political thought during the 18th century, including ideas of enlightenment and revolution. We move on to the 19th century to engage with the critical Marxist theorisation of the new “capitalist” social and political formation, and look at the reception of the Marxist view in the 20th century, all of which continues to affect the character of Western social and political thought. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

TRN225Y1 - The Art of Health Science Discovery

Hours: 48S

Illustrated by contemporary examples, students go through the stages of the scientific discovery process. From initial idea, through literature review, funding (grant writing and assessment), experimental design and critical analysis of data through to the public dissemination of results by publication, the patent process and development of intellectual property. Restricted to students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN125Y1

Breadth Requirements: Living Things and Their Environment (4), Society and its Institutions (3)

TRN235H1 - Health Policy in Canada: Past, Present and Future

Hours: 24S

This course explores the nature and impact of public health policy in Canada. The course describes the origins of Canadian health policy, its evolution towards its current form and the choices resulting from aging populations and

the increasing costs associated with a high standard of health care.

Prerequisite: TRN135Y1

Breadth Requirements: Society and its Institutions (3)

TRN236H1 - The Politics of Global Health

Hours: 24S

This course explores the nature and impact of policy relationships designed to improve global public health. We explore the analytical tools necessary to study these institutional arrangements and examine successes and failures of these policy relationships across a range of global health policy challenges including infectious disease and child health.

Prerequisite: TRN135Y1

Breadth Requirements: Society and its Institutions (3)

UNI101H1 - Citizenship in the Canadian City

Previous Course Number: UNI101Y1

Hours: 36S

Who belongs? Who governs? Who decides? In this course, you will examine the concepts of citizenship, public space, political membership, civic responsibility, and belonging. You will address topics such as Indigenous sovereignty claims, urban multiculturalism, public housing, and greening the city. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

UNI102H1 - Performing the City I

Previous Course Number: UNI102Y1

Hours: 36S

In this course we learn about different practices of performative engagement with the city and experiment with them through exercises and creative activities. The goal is to gain, through this mode of embodied engagement with the city, a critical understanding of urban space as a diverse social, cultural, and physical environment. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

UNI103H1 - Gradients of Health in an Urban Mosaic

Previous Course Number: UNI103Y1

Hours: 36S

In this course, you will examine how Toronto's varied communities access and use health care, and how they may encounter barriers in doing so. You will study how economic disparities, shifting demographics, and government policies affect health policy and the right to access resources. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

UNI104H1 - Sex in the City

Previous Course Number: UNI104Y1

Hours: 36S

You will learn about the sexual politics of the city and how cities and their neighbourhoods become sexualized and desexualized spaces. In Sex in the City, you will examine what "sex" means to Toronto's varied, multicultural communities by looking at urban space, cultural productions, law enforcement, safety and health resources and more. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

UNI106H1 - Performing the City II

Previous Course Number: UNI102Y1

Hours: 36S

Further exploration of connections between the performing arts, urban spaces, and cultural diversity; complementing UNI102H1. How does theatrical performance affect how people perceive the city? What are the alternatives to established theatres, and how does community activism inform performing arts in Toronto? Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

UNI197H1 - Hamilton: Musical and History

Hours: 24S

This course examines the American revolution and its reception in the musical "Hamilton." The American revolution generated multiple stories that included and excluded actors, peoples, perspectives, and more. This course delves into the American revolution and the diversity of those engaged in it and affected by it. The songs, performances, and reception of the musical "Hamilton" are a key resource for exploring the events and role of the American Revolution. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

UNI198H1 - Why Go to University? The Changing Role and Purpose of Higher Education

Hours: 24S

Is higher education about job preparation or about giving students an opportunity to learn about themselves and the world around them? Can higher education in Canada achieve both these aims? This course engages with the spirited conversations and scholarly debates about the ideals of a liberal arts education and how these connect with ancient and contemporary arguments about citizenship. We explore the impact on higher education of globalization and what some call the "corporatization" of universities. Students will be encouraged to think, read, research and write about various models of higher education and explore questions suggested by these debates. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

UNI199H1 - The Construction of Race in America: A History

Hours: 24S

The course will explore the origins of racial categories in America. Drawing on primary sources such as memoirs, film, and government records as well as writings by scholars, we will examine how beliefs about these categories changed over time and with what consequences for the unfolding of American history. Arriving at the present day, we will consider such contradictory developments as the accelerating influence of Black Lives Matter and the headline-grabbing white nationalism on display at the "Unite the Right" rally in Charlottesville, Virginia, August, 2017. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC101H1 - Conflict Theory and Practice

Hours: 24S

This course is a general orientation to conflict theory, and develops a basic understanding of essential conflict resolution principles that will complement the study of conflict theory. The course will examine the differences between conflicts and disputes, the functions and desirability of conflict, and the conditions that facilitate conversion of conflicts from destructive to constructive. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC102H1 - Ethics and Choices in Times of Crisis

Hours: 24S

This course examines a specific event, or events, in relation to the public sphere. The course will use events or an event as an entry point to discuss the nature of society including topics such as major revolutions, economic crises, the impact of the appearance of significant artistic or cultural works, and the impact of technological changes. Not eligible for CR/NCR option.

Exclusion: VIC102Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC103H1 - Leadership, Narrative, and Creativity

Hours: 24S

This course examines what it means to be a leader through narrative presented in media such as text or film. Such works of creative fiction aspire not simply to depict actions and events, but also to lay bare the inner psychology of protagonists. They capture and convey realities with a psychological depth that social scientists cannot always replicate. Students will study such narratives to understand various kinds of leadership skills and leadership types. By creating narratives of their own, students will practice the communication skills that leaders need. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC105H1 - Odysseys: The Search for Meaning

Hours: 24S

Metaphors and motivations of journeying have long intrigued human beings as they have attempted to understand the meaning of their existence: the setting out, the seeking for a desired object, the pilgrimage of religious observance, and the longing to return home. Through texts, art, music and film, this course will explore some of the shaping journey-myths of our culture from classical, Hebrew, medieval and modern sources. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

VIC106H1 - Psychology and Society

Hours: 24S

This course explores central developments and ongoing controversies in the scientific study of the human mind, brain and behaviour. It examines topics such as: psychoanalysis, behaviourism, humanistic psychology, evolutionary psychology, intelligence testing, and feminist perspectives. Goals include understanding the historical evolution and social relevance of scientific psychology. Not eligible for CR/NCR option.

Exclusion: VIC206H1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC107H1 - Evolution, Genetics, and Behaviour

Hours: 24S

In this course we examine major episodes in the history of evolution and genetics in the twentieth century. Topics include Darwinian evolution, sociobiology and evolutionary psychology, eugenics, and genetic screening and therapy. We will examine different views about the control of evolution and genetic manipulation in their socio-cultural-economic context and discuss the ethical and social implications of those views. Not eligible for CR/NCR option.

Exclusion: VIC207H1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC108H1 - Belonging, Imagination, and Indigenous Identity

Hours: 24S

This course will examine a number of questions related to Indigenous identities as they have been constituted through collective belonging and cultural representation. Topics covered may include: language, the arts, cinema, ecology, religion, ritual, and the enduring legacy of colonialism. Not eligible for CR/NCR option.

Exclusion: VIC108Y1

Breadth Requirements: Society and its Institutions (3)

VIC109H1 - Innovators and Their Ideas

Hours: 24S

A study of the ideas and concerns of innovators who questioned traditional views and values. The course includes creative thinkers who challenged basic concepts on politics, literature, religion, and society. Not eligible for CR/NCR option.

Exclusion: VIC109Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC110H1 - Critical Perspectives on Society

Hours: 24S

By means of short texts, film or art works this course explores such themes as the effect of technology on the political, the nature of democracy, the question of resistance through art and the role of violence in the social. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC112H1 - Puzzles, Discovery and the Human Imagination

Previous Course Number: VIC112Y1

Hours: 24S

There has never been a period of time, nor has there ever been a culture, without some kind of puzzle tradition. Are puzzles just playful artefacts, intended merely to entertain? Or are they mirrors of something much more fundamental in human life? The course will take a close

look at what puzzles tell us about the human mind and human culture. Not eligible for CR/NCR option.

Exclusion: VIC112Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC113H1 - Encountering Distant Climes: The Literature of Travel and Exploration

Hours: 24S

This course will study accounts of world travelers and explorers from the Middle Ages to the present, including representative examples drawn from the Age of Exploration, the Grand Tour, scientific and map-making expeditions, and the contemporary genre of travel writing. Particular attention will be given to the trans-cultural nature of travel, and the interactive aspects of the gulf between the observer and those observed. Students will analyze the diverse motivational factors behind excursions and expeditions, and apply a critique to written accounts in light of such factors as self-discovery, knowledge and imagination, Eurocentrism, orientalism, cultural relativism, colonialism/imperialism, race, gender, and eco-tourism. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

VIC114H1 - Renaissance in Popular Culture

Hours: 24S

This course explores the depiction of the Renaissance in a wide range of plays, films and novels. The focus is on the exchange between film, fiction, and 'fact', and on how the values and concerns of the present shape creative recreations of the past in popular culture. Not eligible for CR/NCR option.

Exclusion: VIC114Y1

Breadth Requirements: Creative and Cultural Representations (1)

VIC115H1 - Imagined Power: Literature and Film

Hours: 24S

In this course we will study a number of literary and cinematic works that take up questions of power, duty,

rights, responsibility, and freedom. Our texts will be drawn from a long history, and from many parts of the world. The sequence however will not be chronological. Not eligible for CR/NCR option.

Exclusion: VIC115Y1

Breadth Requirements: Creative and Cultural Representations (1)

VIC116H1 - Politics of the Pen

Hours: 24S

A study of how literature challenges prevailing political beliefs and social norms. We will situate our discussion in the broader context of human rights and freedoms. We will examine cases where literature has been censored and writers have been imprisoned or driven into exile. Part of this course involves a community service-learning component. We will consider how this literature contributes to debate and advocacy around issues of social justice. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC117H1 - Understanding the Performing Arts: Interpretation and Expression

Hours: 24S

This course examines two key issues about the performing arts that concern both artists and theorists: the nature of interpretation and of expression. What might we mean when we say that a work, a piece of music or a dance for example expresses something? What is it to express? And what is the nature of interpretation? Are there any constraints or boundaries on interpretation? We will draw on both philosophers and non-philosophers to explore these sorts of questions. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

VIC119H1 - Myths and Legends in Modern Contexts

Hours: 24S

This course provides an introduction to modern forms of ancient narratives, exploring the ways in which selected ancient literary sources and myths have been adapted to

modern Canadian literature. Ancient narratives or 'old stories' are often reused, reinterpreted or reconstructed in modern narratives and given new relevance in a contemporary context. Students will encounter sources and contexts of ancient narratives. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

VIC121H1 - Evaluating Healthcare: Problems and Solutions

Hours: 24S

This course introduces students to the study of healthcare by asking foundational questions about how evidence and knowledge are produced in the context of healthcare problems. Students will explore how different frameworks for clinical practise (e.g. Evidence-based Medicine, Person-Centered Healthcare) conceptualize evidence and how different methodologies impact how healthcare research is conceived, reported, and understood. Students will learn to critically appraise healthcare research studies and assess their evidence value and implications for clinical practice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

VIC122H1 - Scientific Evidence in Public Policy

Hours: 24S

This course investigates issues arising from the translation of scientific evidence for public consumption, including in the development of public policy and in confronting problems of social and global significance. Areas of focus will include climate change, global health, and clinical medicine. Students will explore concepts including the perception and communication of risk, the generalizability of research findings, probabilistic and mechanistic thinking, and the use and abuse of scientific authority and "expertise" in public discourse. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC134H1 - Globalization

Hours: 24S

This interdisciplinary course explores the contemporary character of globalization. The world is shrinking as money, goods, people, ideas, weapons, and information flow across national boundaries. Some commentators assert that a more tightly interconnected world can exacerbate financial disruptions, worsen the gap between rich and poor nations, undermine democracy, imperil national cultures, harm the environment, and give unconstrained freedom to predatory corporations. Others proclaim that globalization - understood as capitalism and free markets - fosters economic growth, encourages creative collaboration, inspires technological breakthroughs, and enhances human prospects for a better life, in rich and poor countries alike, in unprecedented ways. Our task is to evaluate the evidence and draw our own conclusions. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC135H1 - The Death of Meaning

Hours: 24S

In *The Origin of Species*, Darwin concluded there was no evidence to suggest that life was designed by a higher power. A corollary of this is that our lives lack any necessary purpose or meaning. Our readings will be directed to the question of what it means to lack 'Meaning'. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC136H1 - How to Study Everyday Life

Hours: 24S

An introduction to the academic study of everyday life. A cross-disciplinary discussion class drawing on a wide variety of examples from ordinary life, fantasy, and culture. We situate the apparently innocuous within larger patterns of social relations and social change. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC137H1 - Science and Science Fiction

Hours: 24S

Based on reading and discussion of science fiction and popular science in the context of social issues, this seminar course explores the fantastic visions of

humanity's future inspired by scientific advances during the twentieth century. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC141H1 - Discovery and Revolution

Hours: 24S

This course examines the emergence of a global modern world in relation to the upheavals of the Renaissance (1350-1700) and its discoveries and innovations in culture and society. Not eligible for CR/NCR option.

Exclusion: VIC141Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC142H1 - Machiavelli: The Politics of Power

Hours: 24S

The name of Machiavelli unleashes powerful opinions and responses and conjures up trickery, duplicity and cynicism. Yet Machiavelli himself is arguably the least Machiavellian of political figures of the Italian Renaissance. This course examines the writings of Niccolò Machiavelli, placing them in their historical context in order to understand this most controversial figure of the Renaissance, his influence and his lasting legacy. Not eligible for CR/NCR option.

Exclusion: ITA198H1 (Machiavelli and Machiavellianism); VIC141Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC150H1 - Theory and Practice of Teaching: Theoretical Perspectives

Previous Course Number: VIC151Y1

Hours: 24S

This course introduces past and contemporary theories and perspectives on teaching and learning in schools and broader society. While there is consensus on the fundamental role that both learning and teaching play in society, a range of perspectives exists on what comprises "teaching" and "learning", how they occur, and how they might be facilitated through designed environments. The course begins with an exploration of major theories of learning and their implications for practice. It then examines several pedagogical frameworks and

perspectives of teaching and their implications for educational practice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC151H1 - Theory and Practice of Teaching: Professional Practice

Previous Course Number: VIC151Y1

Hours: 24S

This course introduces the theories and practices of teaching through analysis of three main themes: planning and implementing inclusive instruction, establishing a classroom context to support diverse learners, and analyzing professional concerns for teachers. Students will be involved in a volunteer placement in a school or community-based setting. Field experience is central to the course with students expected to apply course ideas in their volunteer work and reflect on their experiences in seminars. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC152H1 - School and Society: Historical and Contemporary Contexts

Previous Course Number: VIC150Y1

Hours: 24S

This course investigates the historical and contemporary roles of the school and formal education system and explore changes in these organizations over time. The course examines schools and learning as social, political, intellectual, and economic phenomena. Topics covered include the history of Canada's education system, the purposes of formal schooling, the role of the school, education and the law, education policy and school curriculum. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC153H1 - School and Society: Equity and Social Justice in Education

Previous Course Number: VIC150Y1

Hours: 24S

This course will examine education as a human right and through a human-rights-based lens, explore themes of equity and diversity, global education, Indigenous

knowledge and perspectives, and decolonizing education. Contexts of discussion will include early-years learning, elementary and secondary school, post-secondary education, and other community-based learning settings, both locally and globally. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: None

Breadth Requirements: Society and its Institutions (3)

VIC159H1 - Vic One Hundred Special Topics Seminar

Hours: 24S

Topics vary from year to year. Not eligible for CR/NCR option. Breadth requirement will vary from year to year depending on the course topic. Please refer to course website for more information:

<https://vic.utoronto.ca/academic-programs/special-topics-courses/vic159h>

VIC159Y1 - Vic One Hundred Special Topics Seminar

Hours: 48S

Topics vary from year to year. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

VIC162H1 - Cultural Forms and Their Meanings

Hours: 24S

A study of culture with a view to developing basic concepts with examples drawn from the visual arts, music, film, literature, architecture, and/or local urban artefacts. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC163H1, VIC164H1, VIC165H1, and 1.0 credit in any 100-level course in ENG or FAH or PHL

Breadth Requirements: Creative and Cultural Representations (1)

VIC163H1 - Cultural Forms and Their Meanings: People and Ideas

Hours: 24S

A study of culture with a view to developing basic concepts with examples drawn from the visual arts, music, film, architecture, and/or local urban artefacts. We will emphasize how contemporary thought has affected the practice of everyday life. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC162H1, VIC164H1, VIC165H1, and 1.0 credit in any 100-level course in ENG or FAH or PHL

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC164H1 - Ideas and Their Consequences: Literary and Artistic Realms of the Imagination

Hours: 24S

A study of the ideas and concerns of creative thinkers and their impact upon cultures. The course includes literary, scientific and/or religious intellectuals from the major traditions. Attention to modes of reasoning, cultural definition and expression. Emphasis on philosophical and artistic concepts. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC162H1, VIC163H1, VIC165H1, and 1.0 credit in any 100-level course in ENG or FAH or PHL

Breadth Requirements: Society and its Institutions (3)

VIC165H1 - Ideas and Their Consequences: Isolation and Communion in Modern Culture

Hours: 24S

A study of art, with a focus on poetry, as an essential mode of experience and knowledge, in the context of contemporary and modern society. Along with literary artists, the course includes writers on history and sociology and presents the interplay between artistic vision and socio-political situations. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC162H1, VIC163H1, VIC164H1, and 1.0 credit in any 100-level course in ENG or FAH or PHL

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC166H1 - Common Vices and Neglected Virtues: Intro to Ethics of Character

Hours: 24S

Vice is popular: a prestigious university press has brought out a series of seven books on the Seven Deadly Sins. This course examines such questions as the following. Are greed, lust and gluttony just bad names for necessary and otherwise acceptable instincts? What is the place, in a good human life, of such qualities as honesty, trust, civility and the like? Are vices and virtues culturally determined or a matter of individual preference? Can character be taught, or is it rather a matter of genes and luck? Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC167H1, VIC168H1, VIC169H1, and 1.0 credit in any 100-level course in ANT or PHL or RLG

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC167H1 - Ideas and Fine Thoughts

Hours: 24S

This course examines how political ideas are formed and developed through literature, art, plays, essays and philosophical works in the twentieth century. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC166H1, VIC168H1, VIC169H1, and 1.0 credit in any 100-level course in ANT or PHL or RLG

Breadth Requirements: Creative and Cultural Representations (1)

VIC168H1 - Identity and Equality in the Public Sphere

Hours: 24S

This course explores current legal and philosophical debates around equality, discrimination, and the shaping of individual and group identities. It addresses the way values, affiliation, and identities have an impact on the

public sphere of law and policy-making – and the ways in which law and policy, in turn, shape our conceptions (and misconceptions) of people's identities. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC166H1, VIC167H1, VIC169H1, and 1.0 credit in any 100-level course in ANT or PHL or RLG

Breadth Requirements: Society and its Institutions (3)

VIC169H1 - Ethical Living in a Pluralistic World

Hours: 24S

This course examines different values, beliefs, and traditions relating to the natural and social world, ethical living, and the common good. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC166H1, VIC167H1, VIC168H1, and 1.0 credit in any 100-level course in ANT or PHL or RLG

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC170Y1 - The Impact of Science on Our Society

Hours: 48S

How rhetoric and statistical analysis are used to communicate scientific observations and theories to different audiences will be examined in lectures and seminars. Uncertainty, belief, evidence, risk assessment, random error and bias will be discussed using examples drawn from literature, the arts and the physical, life and social sciences. Students will prepare a research grant application on a scientific topic of their own choice. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC171Y1 and 1.0 credit selected from first-year course offerings in the sciences (0.5 credit must be a BIO course)

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC171Y1 - Methodology, Theory and Practice in the Natural Sciences

Hours: 48S

An examination of scientific theories and their logic in life and physical sciences. Experimental design, novel device production, data analysis and modeling will be discussed using examples drawn from primary source material in the natural sciences. Students will prepare a research paper on a topic designed in consultation with the instructor. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC170Y1 and 1.0 credit selected from first-year course offerings in the sciences (0.5 credit must be a BIO course)

Breadth Requirements: Creative and Cultural Representations (1)

VIC172Y1 - Physical Sciences Today

Hours: 48S

How is science performed and what enables scientific progress? What are our responsibilities as scientists? We base the discussion mostly on the development of microscopy tools. We look at how scientific discoveries affect and were affected by society. This course explores the complementary skills and knowledge needed by modern scientists. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC173Y1 and 1.0 credit selected from first-year course offerings in the sciences (0.5 credit must be a CHM, MAT or PHY course)

Breadth Requirements: Society and its Institutions (3)

VIC173Y1 - Philosophy of Science for Physical Scientists

Hours: 48S

This course introduces students to some of the issues in the philosophy of science, in general, and in the philosophy of physics, in particular. Topics include the scientific method and its controversies, the meaning of time and its properties, realism versus competing approaches, thought experiments, and quantum mechanics. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC172Y1 and 1.0 credit selected from first-year course offerings in the sciences (0.5 credit must be a CHM, MAT or PHY course)

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC181H1 - Events in the Public Sphere: World Affairs

Hours: 24S

This course will review issues in contemporary world affairs, from the fall of the Berlin Wall to the present day. The course will examine the politics and practice of foreign policy decision making. Issues to be covered include the collapse of the Soviet Union, intervention in humanitarian crises, and the conflicts in Afghanistan and Iraq. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC183H1, VIC184H1, VIC185H1, and 1.0 credit in any 100-level course in ECO, HIS or POL

Breadth Requirements: Society and its Institutions (3)

VIC183H1 - Individuals and the Public Sphere: Shaping Memory

Hours: 24S

This course explores how public service and citizenship are developed. Topics may include the role of law and government, civil liberties, rights and responsibilities, and the creation of policy, as well as how these factors shape collective memory. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC181H1, VIC184H1, VIC185H1, and 1.0 credit in any 100-level course in ECO, HIS or POL

Breadth Requirements: Creative and Cultural Representations (1)

VIC184H1 - Individuals and the Public Sphere: History, Historiography and Making Cultural Memory

Hours: 24S

A seminar course that examines the contribution of an individual or individuals to the public sphere. The course will explore how public service and citizenship are developed in social, philosophical, and cultural contexts. We will examine our evolving role in developing collective, cultural and counter memory. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC181H1, VIC183H1, VIC185H1, and 1.0 credit in any 100-level course in ECO, HIS or POL

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC185H1 - Events in the Public Sphere: Social Justice

Hours: 24S

This course uses events to discuss the nature of society including major revolutions, economic crises, and the impact of significant artistic, cultural and technological developments. Emphasis on our responsibilities towards social justice. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC181H1, VIC183H1, VIC184H1, and 1.0 credit in any 100-level course in ECO, HIS or POL

Breadth Requirements: Society and its Institutions (3)

VIC186H1 - The Art and Literature of Leadership 1

Previous Course Number: VIC186Y1

Hours: 24S

What is a leader? Are leaders born or are they made, and if they are made is there a craft to being able to lead others? Through works of art, film, and literature, this course examines the various types of men and women who become leaders from natural-born talents to statesmen and state-crafters and individual entrepreneurs with the purpose of defining those qualities that make for the leaders of tomorrow. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC187H1, VIC188H1, VIC189H1, ECO101H1 and ECO102H1

Exclusion: VIC186Y1

Breadth Requirements: Creative and Cultural Representations (1)

VIC187H1 - Prosperity, Justice, and Sustainability: Introduction to Public Policy

Hours: 24S

This course introduces policy applications of measurement tools and economic concepts by analyzing current issues in the news, such as public spending and debt, health care, social security, energy, climate change, innovation, and education. Concepts from the philosophy and history of economic thought will be used to address such questions as: What is the nature of economic explanations? Do they tell us the truth about reality? Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: [VIC186Y1](#), [VIC188H1](#), [ECO101H1](#) and [ECO102H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC188H1 - Corporate Citizenship, Sustainability, and Ethics

Hours: 24S

Drawing together philosophical background readings with contemporary applications, this course addresses issues of corporate social responsibility, business ethics, human rights, diversity, and equity, and considers how these topics intersect with a wide range of global practices. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: [VIC186H1](#), [VIC187H1](#), [VIC189H1](#), ([ECO101H1](#) and [ECO102H1](#))/ [ECO105Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC189H1 - The Art and Literature of Leadership 2

Previous Course Number: VIC186Y1

Hours: 24S

What is a leader? Are leaders born or are they made, and if they are made is there a craft to being able to lead others? Through works of art, film, and literature, this course examines the various types of men and women who become leaders from natural-born talents to

statesmen and state-crafters and individual entrepreneurs with the purpose of defining those qualities that make for the leaders of tomorrow. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: [VIC186H1](#), [VIC187H1](#), [VIC188H1](#), [ECO101H1](#) and [ECO102H1](#)

Exclusion: [VIC186Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

VIC190Y1 - The Arts and Society

Hours: 48S

The artist, filmmaker, poet or dramatist has changed society and how we imagine our future. The course explores a number of paradigm cases of how the arts have interacted with social problems. Both historical and current examples of the role of the imaginative arts will be explored. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: [VIC191Y1](#) and 1.0 credit in any 100-level course in ARC or CIN or DRM or ENG or MUS or VIS

Breadth Requirements: Society and its Institutions (3)

VIC191Y1 - Artistic Creation and Public Issues

Hours: 72S

This course addresses social issues through the exploration of creative activity and the imaginative arts. Topics will be discussed from historical, ethical and philosophical perspectives, and might be considered either in a group or individually. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: [VIC190Y1](#) and 1.0 credit in any 100-level course in ARC or CIN or DRM or ENG or MUS or VIS

Breadth Requirements: Creative and Cultural Representations (1)

VIC196H1 - Renaissance Queens

Hours: 24S

This course examines Renaissance queens and queenship by exploring historical and fictional queens and empresses. Topics may include the varied roles queens played within their societies, their relationship with religious and political institutions, the ways in which they negotiated sovereignty vis-a-vis the gender they embodied, and all the ways in which queens were celebrated, criticized, and imagined by artists, writers, and communities of their time and today. Discussion will delve into broad questions around identity and politics and feature a broad range of case studies from Europe to colonial America and beyond. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC197H1 - Detective Fiction

Hours: 24L

This course considers detective fiction from its inception in the late nineteenth century to the present day. Students will be introduced to canonical and lesser known authors of detective fiction, evolving generic conventions, and reception history. Course content may include mystery stories, connections to emerging legal processes, and critical writing on detective fiction. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: ITA197H1

Breadth Requirements: Society and its Institutions (3)

VIC198H1 - Posters and Propaganda

Hours: 24L

How and when have political posters been used? What forms do they take? How have they changed over time? What can these visual artifacts tell us about the relationship between art and propaganda, and about the political movements that have mobilized visual strategies to advance their aims? This course involves visits to several poster collections, develops visual literacy skills, and highlights the role of the visual in societies past and present. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

VIC199H1 - The Secret Life of Objects: Analyzing the Culture of Things

Hours: 24S

This course will examine the materiality of objects with a view to understanding how artefacts are made, their circulation, consumption, and the importance of *things* to social and cultural life. An investigation of artefacts from various collections in and around the university will be undertaken to develop basic methods for the study, description and analysis of material culture. In addition to hands-on exploration of objects, topics may include antiquarians and their methods, material culture in colonial contexts, and materials in contemporary user-friendly design. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

WDW151H1 - Order and Disorder I: Issues and Perspectives

Hours: 16T/24S

Societies require law and order, but at what point does order become oppression? How do we balance our need for freedom and society's need for order? This interdisciplinary seminar allows students to explore these and related questions through selected readings introducing theories from sociology, political science, philosophy, and history. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

WDW152H1 - Order and Disorder II: Problems and Solutions

Hours: 16T/24S

This interdisciplinary seminar introduces students to some of the methods used by scholars and researchers in sociology, political science, philosophy, and history to develop, test, and debate possible solutions to the problems of social order and disorder. Topics will vary from year to year. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion:

Breadth Requirements: Society and its Institutions (3)

WDW195H1 - From Page to Screen: Reading in the Digital Age

Hours: 24L/12T

This course explores the practice of reading at the juncture between printed page and digital screen through

assembling a digital commonplace book, an annotated personal anthology that will document each student's intellectual path. Students will learn close reading strategies, multimodal annotation techniques, and various modes of digital engagement with texts. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

WDW196H1 - From Rayguns to Light Sabers: Science Fiction in Contemporary Culture

Previous Course Number: CCR199Y1
Hours: 24S

This course examines science fiction as pop culture genre, media industry, and sociocultural phenomenon, with attention to some of its key themes, its important texts, creators, and audiences, and its place in contemporary culture. We will study some works chosen by the class as well as by the instructor. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: ANT195H1, VIC137H1

Breadth Requirements: Creative and Cultural Representations (1)

WDW197H1 - Jane Austen on Film

Hours: 24S

In the 21st century, Jane Austen's early 19th-century novels of love and marriage are increasingly experienced through retellings and updatings in theatrical and made-for-television movies. The course will examine highlights from the last 25 years of Austen adaptations for what they can tell us about relationships in our time, including how Austen's stories are rewritten to please a modern audience. Films in the course will include works from 1995 to 2016 (from 1995, *Clueless*, Austen's *Emma* retold as a Hollywood high school comedy and starring Alicia Silverstone; and *Sense and Sensibility*, for which Emma Thompson's screenplay won an Academy Award; and from 2016, the Hallmark Channel's *Unleashing Mr. Darcy*, Austen's *Pride and Prejudice* transferred to the present-day dog show circuit; and writer/director Whit Stillman's *Love and Friendship*, the first-ever film version of Austen's *Lady Susan*). Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

WDW198H1 - There and Back Again: Exploring Tolkien

Hours: 24S

Since the mid-twentieth century, J.R.R. Tolkien's *The Hobbit* and *The Lord of the Rings* have become classics of children's and fantasy literature. In this course, we read Tolkien's *The Lord of the Rings* and investigate the world-building and imagined history that lies behind the books. We trace how Tolkien's own life experience informed his work—his experience as a soldier of the Great War and a civilian during World War Two; as a scholar of medieval language and literature, and of fairy tales; as a Catholic thinker; and as a lover of nature and the past. We also survey the afterlife of the novels in fantasy, film, and the popular imagination. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

WDW199H1 - Indigenous Knowledge and Storytelling in Toronto

Hours: 12T/24S

The land now known as Toronto has a 13,000+ year old history of Indigenous presence that is still unfolding. This history is inscribed in the land – it is visible in the geographical features, place names, and contemporary urban form of the city and is represented through stories (oral and written) told by diverse members of Toronto's Indigenous community. This course engages with stories of Indigenous history and presence in Toronto through a selection of Indigenous literary works about Toronto, Indigenous guest speakers, and a series of experiential Indigenous storytelling tours of significant locations across the city. Students will be introduced to Indigenous worldviews and ways of knowing and will learn why storytelling remains a significant and culturally-appropriate means for keeping and sharing land-based Indigenous Knowledge. Students will gain a deeper appreciation of the city as a traditional Indigenous territory and will reflect on their own relationships and responsibilities within these lands. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

Forest Conservation and Forest Biomaterials Science

Faculty List

Professors

Sandy Smith, MSc, PhD
Sean Thomas, BA, PhD

Associate Professors

John Caspersen, BA, PhD
Patrick James, BSc, PhD

Assistant Professors

Sally Krigstin, MScF, PhD
Ben Kuttner, MScF, PhD, RPF
Amory Ngan, BA, MFC, RPF
Danijela Puric-Mladenovic, MScF, PhD
Katherine Siegel, BS, MS, PhD
Rasoul Yousefpour, BSc, MSc, PhD

Professors Emeriti

David Balsillie
Roarke Bryan
Terry Carleton
Paul Cooper
Martin Hubbes
Andy Kenney
Jay Malcolm
David Martell
Vic Timmer

Introduction

In the past, Forestry programs have traditionally focused on the management of forests as sources of timber and revenue. However, with the increasing recognition of their immense cultural, social, and environmental role, the focus of forest management has shifted to include biodiversity maintenance, ecological sustainability, and the protection of wildlife and their habitats. Our Forest Conservation programs prepare students for this critically important role by combining traditional ecological and physical sciences with social sciences. Graduates can pursue a wide range of new career opportunities developing in private, government, and non-government environmental organizations where forest conservationists increasingly work as members of multidisciplinary teams of environmental and resource managers focusing on complex, emerging social and community issues, such as Aboriginal rights and land tenure, protection of wilderness

parklands, preservation of urban green space, and the use of forests for carbon sequestration.

The Undergraduate Forestry program at the University of Toronto is designed to provide students with a comprehensive understanding of the biological, social, and operational fundamentals of forestry and its relationship to our ecosystems. The program offers courses in forest conservation, tree biology and identification, arboriculture, wood science and forest products, wildlife and insect ecology, agroforestry, urban forestry, bioenergy, and forest fire behaviour and management.

Students may take a specialist degree leading to a Bachelor of Arts in Forest Conservation or a Bachelor of Science in Forest Conservation Science. The arts program focuses on communal forest management, development of forest policies, forest economics and forest product trade, with electives in social sciences, while the science program concentrates on forest biology and ecology with electives in life and physical sciences.

The major programs in Forest Conservation are intended to build on a student's interest in forestry and related issues. Students should consider combining these programs with a major in another related discipline such as environment, geography, biology, chemistry, or urban studies. A minor in Forest Conservation Science (Science program) and a minor in Forest Conservation (Arts program) are also available.

Foresters play a critical role in managing our natural resources, and as a forestry student you will learn how to take care of our forests while addressing some of the biggest challenges facing our forest landscapes, ecosystems, and communities.

If you are passionate about the sustainability of natural resources, value experiential learning in the outdoors and classroom, and want to gain an understanding of the natural and social sciences needed to tackle the challenges of resource management in the face of future climates, then one of our forestry programs may be perfect for you.

Note: Enrolment in the Forest Biomaterials Science Major and Minor has been administratively suspended as of 1 October 2020 and no new students are being admitted. Students presently enrolled in the Major or Minor will be able to complete the respective program requirements as described below.

The Forestry Program Administrator may be contacted at laura.lapchinski@daniels.utoronto.ca or programs@daniels.utoronto.ca.

Forest Conservation and Forest Biomaterials Science Programs

Forest Conservation Science Specialist (Science Program) - ASSPE1102

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(12.0 credits, including at least 3.5 credits at the 300-level and 2.0 credits at the 400-level; other equivalent and approved courses offered by other Faculties, University of Toronto Mississauga or University of Toronto Scarborough may be eligible for inclusion.)

First Year:

BIO120H1; plus 2.5 first year Science credits (GGR101H1; CHM135H1, CHM136H1 recommended)

Second Year:

1. FOR200H1, FOR201H1
2. 1.0 credit from ECO220Y1, ECO227Y1; GGR270H1, GGR271H1; STA220H1, STA221H1
3. 1.5 credits from BIO220H1, BIO251H1, BIO260H1; GGR201H1, GGR203H1, GGR205H1, GGR206H1, GGR223H1, GGR272H1, GGR273H1; PHL273H1; ENV221H1, ENV222H1; ENV234H1/ EEB240H1, ENV237H1, ENV238H1

Third Year:

1. FOR301H1, FOR305H1; 1.0 credit from FOR300H1, FOR302H1, FOR303H1, FOR306H1, FOR307H1, FOR310H1; ENV334H1
2. 0.5 credit from EEB319H1, EEB321H1, EEB323H1, EEB328H1; CSB340H1
3. 1.0 credit from EEB324H1, EEB365H1, EEB386H1, EEB388H1; GGR305H1, GGR314H1; ENV320H1, ENV322H1, ENV323H1

Fourth Year:

1. FOR400Y1, FOR401H1
2. 0.5 credit from FOR403H1, FOR405H1, FOR410H1, FOR413H1, FOR416H1, FOR417H1, FOR418H1, FOR419H1, FOR420H1, FOR423H1; ENV347H1; EEB403H1, EEB406H1, EEB407H1

To substitute courses not currently on offer, please contact the Forestry Undergraduate Administrator to discuss course options from other departments.

Note: If the FOR301H1 is not on offer, a student may use a substitute field or research course from another department. Contact the Forestry Undergraduate Administrator for details and confirmation.

Forest Conservation Specialist (Arts Program) - ASSPE1100

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(12.0 credits, including at least 3.0 credits at the 300-level and 2.5 credits at the 400-level; other equivalent and approved courses offered by other Faculties, University of Toronto Mississauga or University of Toronto Scarborough may be eligible for inclusion.)

First Year:

BIO120H1; plus 1.5 first year Social Science credits

Second Year:

1. ENV234H1/ EEB240H1; FOR200H1, FOR201H1
2. 1.0 credit from ECO220Y1, ECO227Y1; GGR270H1; STA220H1, STA221H1, STA255H1
3. 1.0 credit from ANT204H1; ENV221H1, ENV222H1; GGR223H1; INS201Y1; PHL273H1

Third Year:

1. FOR301H1, FOR305H1; At least 1.0 credit from FOR300H1, FOR302H1, FOR303H1, FOR306H1, FOR307H1, FOR310H1; EEB321H1
2. At least 1.0 credit from JGE321H1, JGE331H1; ENV320H1, ENV323H1, ENV347H1, JIG322H1

Fourth Year:

1. FOR400Y1, FOR401H1
2. 1.0 credit from ANT450H1; FOR403H1, FOR416H1, FOR417H1, FOR418H1; ENV421H1, ENV422H1, ENV440H1; GGR416H1

An additional 1.0 credit can be taken from any 3rd or 4th year elective listed above.

To substitute courses not currently on offer, please contact the Forestry Undergraduate Administrator to discuss course options from other departments.

Note: If the FOR301H1 is not on offer, a student may use a substitute field or research course from another department. Contact the Forestry Undergraduate Administrator for details and confirmation.

Forest Biomaterials Science Major (Science Program) - ASMAJ1098

Enrolment Requirements:

Enrolment in the Forest Biomaterials Science Major is being administratively suspended as of 1 October 2020 and no new students will be admitted thereafter. Students presently enrolled in the Major will be able to complete the program requirements as described below.

Completion Requirements:

The Forest Biomaterials major or minor may be strengthened by an accompanying major or minor(s) in Biology (major, minor), Biochemistry (major), Forest Conservation (major, minor), Chemistry (major, minor), Environmental Chemistry (minor), Materials Chemistry (minor) or Environment & Science (major, minor).

Questions about the program should be submitted to programs@daniels.utoronto.ca.

(8.0 credits, including at least 2.0 credits at the 300-level and 2.0 credits at the 400-level; other equivalent and approved courses offered by other Faculties may be eligible for inclusion.)

1. BIO120H1; 1.0 credit from MSE101H1; ECO101H1, ECO102H1, ECO105Y1, CHM135H1, CHM136H1; MAT135H1
2. FOR200H1, STA220H1; 1.0 credit from CHM220H1; ENV221H1, ENV234H1/ EEB240H1; MSE219H1; BCH210H1; BCH242Y1; STA221H1; EEB225H1; MGT201H1, RSM100Y1; BIO220H1, BIO251H1
3. FOR300H1, FOR310H1; 1.0 credit from FOR302H1, FOR305H1; ENV350H1; MSE316H1; BCH370H1; GGR348H1
4. FOR401H1, FOR410H1; 1.0 credit from FOR403H1, FOR405H1, FOR420H1, FOR423H1; CHE475H1

An additional 0.5 credit can be taken from any 3rd or 4th year elective listed above.

Forest Conservation Major (Arts Program) - ASMAJ1100

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(8.0 credits, including at least 1.5 credits at the 300-level and 1.0 credit at the 400-level; other equivalent and approved courses offered by other Faculties, University of Toronto Mississauga or University of Toronto Scarborough may be eligible for inclusion.)

First Year:

BIO120H1; plus 1.5 first year Social Science credits

Second Year:

1. ENV234H1/ EEB240H1; FOR200H1, FOR201H1
2. 1.0 credit from ANT204H1; ECO220Y1, ECO227Y1; GGR270H1; INS201Y1; STA221H1; ENV221H1, ENV222H1; PHL273H1; STA220H1, STA255H1

Third Year:

FOR305H1; 1.0 credit from FOR300H1, FOR301H1, FOR302H1, FOR303H1, FOR306H1, FOR307H1, FOR310H1; EEB321H1

Fourth Year:

FOR400Y1

An additional 1.0 credit can be taken from any 3rd or 4th year elective listed above or under the Forest Conservation Specialist (Arts Program).

To substitute courses not currently on offer, please contact the Forestry Undergraduate Administrator to discuss course options from other departments.

Forest Conservation Science Major (Science Program) - ASMAJ1102

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(8.0 credits, including at least 2.0 credits at the 300-level and 1.0 credit at the 400-level; other equivalent and approved courses offered by other Faculties, University of Toronto Mississauga or University of Toronto Scarborough may be eligible for inclusion.)

First Year:

BIO120H1; plus 2.5 first year Science credits (JEG100H1, GGR101H1, CHM135H1, CHM136H1 recommended)

Second Year:

FOR200H1, FOR201H1; 1.0 credit from ENV234H1/ EEB240H1, ENV237H1, ENV238H1, GGR201H1,

GGR203H1, GGR205H1, GGR206H1, GGR223H1,
GGR272H1, GGR273H1, BIO220H1

Third Year:

FOR305H1; 1.5 credits from FOR300H1, FOR301H1,
FOR302H1, FOR303H1, FOR306H1, FOR307H1,
FOR310H1, EEB321H1

Fourth Year:

FOR400Y1

To substitute courses not currently on offer, please contact the Forestry Undergraduate Administrator to discuss course options from other departments.

Forest Biomaterials Science Minor (Science Program) - ASMIN1098

Enrolment Requirements:

Enrolment in the Forest Biomaterials Science Minor is being administratively suspended as of 1 October 2020 and no new students will be admitted thereafter. Students presently enrolled in the Minor will be able to complete the program requirements as described below.

Completion Requirements:

The Forest Biomaterials major or minor may be strengthened by an accompanying major or minor(s) in Biology (major, minor), Biochemistry (major), Forest Conservation (major, minor), Chemistry (major, minor), Environmental Chemistry (minor), Materials Chemistry (minor) or Environment & Science (major, minor).

Questions about the program should be submitted to programs@daniels.utoronto.ca.

(4.0 credits, including at least 1.5 credits at the 300-level and 1.0 credit at the 400-level)

1. 1.5 credits from BIO120H1; MSE101H1; ECO105Y1; CHM135H1, CHM136H1, CHM220H1; FOR200H1; ENV234H1/ EEB240H1; MGT201H1

2. FOR300H1, FOR310H1; 0.5 credit from ENV350H1; MSE219H1, MSE316H1; FOR305H1, BCH370H1; GGR348H1

3. 1.0 credit from FOR401H1, FOR405H1, FOR410H1, FOR420H1, FOR423H1

Forest Conservation Minor (Arts Program) - ASMIN1100

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year: 1.0 credit from ANT100Y1; ECO101H1, ECO102H1; ENV200H1; GGR101H1, JEG100H1

Higher Years: 3.0 credits from FOR200H1, FOR201H1, FOR300H1, FOR301H1, FOR302H1, FOR303H1, FOR305H1, FOR306H1, FOR307H1, FOR310H1, FOR400Y1, FOR401H1

To substitute courses not currently on offer, please contact the Forestry Undergraduate Administrator to discuss course options from other departments.

Forest Conservation Science Minor (Science Program) - ASMIN1102

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including at least 1.0 credit at the 300-level and 1.0 credit at the 400-level)

First Year: 1.0 credit from BIO120H1; GGR101H1; CHM135H1, CHM136H1

Second Year: FOR200H1, FOR201H1

Third Year: 1.0 credit from FOR300H1, FOR301H1, FOR302H1, FOR303H1, FOR305H1, FOR306H1, FOR307H1, FOR310H1

Fourth Year: FOR400Y1

To substitute courses not currently on offer, please contact the Forestry Undergraduate Administrator to discuss course options from other departments.

Forest Conservation and Forest Biomaterials Science Courses

FOR199H1 - Trees in Architecture and Urban Design

Hours: 24L

Most depictions of “cities of the future” are a fusion of buildings and forests. Is this happening? If not, why not? This course bridges the disciplines of forestry, architecture, and landscape and urban design to examine the evolving role of trees in human habitations. The course will survey designs incorporating trees on buildings, from the hanging gardens of Babylon to the Bosque Verticale of contemporary Milan, the evolution of urban forestry and urban “green infrastructure”, and history and current policy initiatives and debates. The course will involve site visits and guest lectures in the City of Toronto, readings of both popular and scholarly literature, as well as student design projects and presentations. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

Course Experience: University-Based Experience

FOR200H1 - Conservation of Canada's Forests

Hours: 24L

Forest conservation issues in Canada; fundamentals of forest biology and ecology; forest biodiversity; development of forest management philosophy in Canadian forested regions; concepts of sustainability. Sustainable forest management strategies; forest policy and economics in a Canadian context; forest certification; protected areas.

Breadth Requirements: Living Things and Their Environment (4)

FOR201H1 - Conservation of Tropical and Subtropical Forests

Hours: 24L

The world's major tropical and subtropical forest biomes; prospects for conservation and sustainable management;

consequences of different forest development strategies; tropical deforestation and selective logging; agroforestry; biodiversity and non-timber forest products; the fuelwood crisis; large carnivore conservation; ecological, economic and social perspectives.

Breadth Requirements: Living Things and Their Environment (4)

FOR300H1 - Forest Products in Sustainable Forestry

Hours: 24L/24P

Traditional and non-traditional forest products; wood structure; properties and material attributes; functional characteristics and logistics of wood product industry. Contribution of innovative product development to conservation; adding value; residue use; biorefinery; under-utilized species; wood protection. Forest product certification; eco-labelling; life cycle analysis.

Recommended Preparation: FOR200H1, FOR201H1

Breadth Requirements: The Physical and Mathematical Universes (5)

FOR301H0 - Field Methods in Forest Conservation

A practical introduction to the field methods used by forest conservationists in Ontario. The overnight field camp portion is approximately seven days taking place during August. Field exercises will provide students with practical training in tree identification, forest ecosystem classification, forest inventory, stand management prescriptions, tree marking, and silvicultural systems. Each student is required to pay an ancillary fee of approximately \$663 to cover the costs of transportation, food, and accommodation. Interested students should contact the Forestry Program Administrator to register. Later registrations will be considered if class size permits.

Recommended Preparation: ENV234H1/ EEB240H1, FOR200H1, FOR201H1

Breadth Requirements: Living Things and Their Environment (4)

FOR301H1 - Field Methods in Forest Conservation

A practical introduction to the field methods used by forest conservationists in Ontario. The overnight field camp portion is approximately seven days taking place during August. Field exercises will provide students with practical training in tree identification, forest ecosystem

classification, forest inventory, stand management prescriptions, tree marking, and silvicultural systems. Each student is required to pay an ancillary fee of approximately \$663 to cover the costs of transportation, food, and accommodation. Interested students should contact the Forestry Program Administrator to register. Later registrations will be considered if class size permits.

Recommended Preparation: ENV234H1/ EEB240H1, FOR200H1, FOR201H1

Breadth Requirements: Living Things and Their Environment (4)

FOR302H1 - Societal Values and Forest Management

Hours: 24L

This course will explore the diverse societal values, interests, and perspectives that informs forest management in rural and urban settings. It will examine the social and political environment in which forest management takes place, and the different approaches to balancing social, economic, and environmental objectives in forest management. Topics include Indigenous stewardship and traditional ecological knowledge, climate change, ecosystem services, urban forestry, community forestry, recreation, human health and well-being, biodiversity conservation, equity and environmental justice, and adaptive management.

Recommended Preparation: FOR200H1, FOR201H1

Breadth Requirements: Society and its Institutions (3)

FOR303H1 - Human Dimensions of Global Forests

Hours: 24L

Global forest resources and forest economics; relationships between societies and forests, consumption, trade and valuation of timber and non-timber products; ecosystem services, climate change and forestry, tropical deforestation and softwood lumber dispute.

Recommended Preparation: FOR200H1, FOR201H1

Breadth Requirements: Society and its Institutions (3)

FOR305H1 - Biology of Trees and Forests

Hours: 24L/40P

An overview of the biology of trees and the ecological principles that govern the structure and function of forests. Topics in tree biology will include tree identification, wood anatomy, tree architecture, resource acquisition and allocation, tree growth and mortality. Topics in forest ecology will include resource competition, stand development, species succession, and the cycling of nutrients and energy. This course will include a substantial field and lab component.

Recommended Preparation: FOR200H1, FOR201H1, BIO120H1, BIO220H1, BIO251H1

Breadth Requirements: Living Things and Their Environment (4)

FOR306H1 - Tropical Forest Ecology and Conservation Field Course

Hours: 24P

This course will provide practical experience in tropical forest conservation, introducing tools for rapid assessment of biodiversity, analysis of human use and natural disturbance impacts on forest structure and diversity, and the development of effective forest conservation strategies. See Forestry website for details.

Not eligible for CR/NCR option.

Prerequisite: FOR201H1, FOR301H1 or FOR305H1

Breadth Requirements: Living Things and Their Environment (4)

Course Experience: University-Based Experience

FOR307H1 - Forest Insect Ecology & Management

Hours: 24L/24P

Insect identification and ecology, biodiversity and conservation, invasive species, insect-tree interaction, biological control, pesticide use, and integrated pest management.

Recommended Preparation: FOR200H1, FOR201H1

Breadth Requirements: Living Things and Their Environment (4)

FOR310H1 - Bioenergy from Sustainable Forest Management

Hours: 24L/12T

Socio-economic, technical, political and environmental issues associated with the utilization of forest biomass (e.g., harvesting residues, thinnings, salvage, short rotation woody crops) for a source of renewable energy.

Recommended Preparation: Completion of at least 5.0 Science credits

Breadth Requirements: Society and its Institutions (3)

FOR400Y1 - Advanced Seminar in Forest Conservation

Hours: 48S

Examination of current and emerging critical issues affecting sustainable management and conservation of global forests. Seminars led by students, faculty and visiting speakers.

Prerequisite: FOR200H1 or FOR201H1 and at least 1.0 credit from: FOR300H1/ FOR301H1/ FOR302H1/ FOR303H1/ FOR305H1/ FOR306H1/ FOR307H1/ FOR310H1; or with permission of the instructor or program administrator

Breadth Requirements: Living Things and Their Environment (4), Society and its Institutions (3)

FOR401H1 - Research Paper/Thesis in Forest Conservation

A research project requiring the prior consent of a member of the Department to supervise the project. Individual in-depth student research projects on significant forest conservation and forest biomaterial issues, based on field and/or laboratory research, or literature survey. Not eligible for CR/NCR option. Please contact Program Administrator for further enrollment details.

Prerequisite: 1.0 credit from: FOR300H1, FOR301H1, FOR302H1, FOR303H1, FOR305H1, FOR306H1, FOR307H1, FOR310H1 or with supervisor or program administrator approval

FOR403H1 - Directed Readings

Hours: 24S

Requires the prior consent of a member of the Department to supervise the readings and assignments. Provides opportunities for students to carry out an individual in-depth study of current forest conservation and forest biomaterials issues. Please contact the Program Administrator for further enrollment details. Not eligible for CR/NCR option.

Prerequisite: 1.0 credit from: FOR300H1/ FOR301H1/ FOR302H1/ FOR303H1/ FOR305H1/ FOR306H1/ FOR307H1/ FOR310H1 or Supervisor or Program Administrator approval

FOR404H1 - Arboriculture

Hours: 24L

The management and care of individual trees in the places we live, work, and play, from rural communities to urban centres, is critical to protecting human life and property, and to maximizing the many social, environmental, and economic benefits that trees provide. Students will develop a professional level of knowledge and skills in arboriculture expected of tree care professionals like arborists and urban foresters, including: tree biology, tree identification and selection, soil management, installation and establishment, pruning, diagnosis and treatment, trees and construction, tree risk management, safe work practices, and urban forestry. Emphasis will be placed on application, real-world scenarios, and problem-based learning. Professionalism, ethics, career pathways and professional development will also be covered.

Prerequisite: FOR305H1 or with permission of the instructor or program administrator

Breadth Requirements: Living Things and Their Environment (4)

Course Experience: University-Based Experience

FOR410H1 - Bioenergy and Biorefinery Technology

Hours: 24L/24T

Technological advances and approaches in deriving biofuels and chemical feedstocks from forest and other biomass. Fundamental chemical attributes of biomass, as they affect the fuel value and potential for deriving liquid, solid and gaseous fuels and valuable chemicals for other applications will be discussed.

Prerequisite: 10.0 credits

Exclusion: FOR425H1 (APSC)

Recommended Preparation:

Breadth Requirements: The Physical and Mathematical Universes (5)

FOR413H1 - Wildlife Ecology & Conservation

Hours: 24L

Temperate and tropical wildlife ecology and conservation; roles of wildlife in forest conservation; impacts of forestry practices and landscape modification on wildlife; ecology and viability of wildlife populations; human uses and abuses of game and non-game species.

Prerequisite: FOR200H1, FOR201H1, EEB319H1, EEB321H1, EEB323H1, EEB324H1, ENV234H1 + Completion of 15.0 credits

Breadth Requirements: Living Things and Their Environment (4)

FOR416H1 - Green Urban Infrastructure

Hours: 24L

Trees in and around the city are key to providing multiple engineered and ecological services that only recently have been brought into the responsible fiscal planning of every municipality around the globe. Reviews the role of trees and woodlands in providing environmental, social and economic benefits to urban and peri-urban residents and to the broader environment. Examines approaches to the characterization of urban forest ecosystems, and their planning and management.

Prerequisite: Completion of 4.0 credits

Exclusion: FOR421H1 (APSC)

Recommended Preparation: FOR200H1, FOR201H1

Breadth Requirements: Living Things and Their Environment (4)

FOR417H1 - Agroforestry

Hours: 24L

This course explores the roles of trees and forests in agricultural land-use systems and examines the biological and management aspects of agroforestry. The sustainability of agroforestry systems is examined within the context of socio-economic constraints, geopolitical forces, and Indigenous perspectives.

Prerequisite: FOR200H1, or FOR201H1 and at least 1.0 credit from: FOR300H1/ FOR301H1/ FOR302H1/ FOR303H1/ FOR305H1/ FOR306H1/ FOR307H1/ FOR310H1 or with permission of the instructor/program administrator

Breadth Requirements: Living Things and Their Environment (4)

FOR418H1 - Urban Forest Conservation Field Camp

Hours: 45L/15P

A ten-day field course examining urban forestry issues in the GTA, southern and eastern Ontario and Quebec. Topics include: urban forest inventories, nursery production, arboricultural techniques, urban woodland management, urban forest health, urban forest administration, urban dendrology, and urban forestry research. Additional fees for field course (e.g. accommodation, food, other within course travel expenses) will apply. See Forestry website for details. Not eligible for CR/NCR option.

Prerequisite: FOR200H1, FOR201H1, or permission of the instructor.

Breadth Requirements: Living Things and Their Environment (4)

FOR419H1 - Forest Fire Behaviour and Management

Hours: 24L/24P

Understanding forest fire activity is important for predicting fire's impact on forests and the wildland-urban interface, as well as understanding the impacts of climate change. Basic principles of forest fuel moisture exchange, fire occurrence and fire behaviour are explored. Emphasis is placed on application of these models to real fire management problems.

Prerequisite: 10.0 credits

Recommended Preparation: FOR303H1

Breadth Requirements: Living Things and Their Environment (4)

FOR420H1 - Green Process Chemistry

Hours: 24L/12T

This course provides an overview of the chemistry of wood and wood materials involving cellulose, hemicellulose, lignin, extractives. It also covers some reaction chemistry associated with these chemical components.

Recommended Preparation: Completion of at least 10.0 Science credits

Breadth Requirements: The Physical and Mathematical Universes (5)

FOR423H1 - Sustainable Materials Design and Manufacturing

Hours: 24L/24T

This course focuses on the manufacturing processes, properties and uses of wood and agricultural fibre based products including wood based composites, ligno-

cellulosic/thermoplastic composites and structural or engineered composites, and the practical use of these products in design.

Prerequisite: 10.0 credits

Exclusion: FOR424H1 (APSC)

Breadth Requirements: Living Things and Their Environment (4)

French

Faculty List

University Professor Emeritus

B.T. Fitch, BA, D 3e C (T)

Professor Emeriti

C. Bertrand-Jennings, LsL, PhD (University of Toronto Scarborough)

P.A.R. Bouissac, LsL, DES, D PhI (V)

N. Boursier, DES, CAPES, D 3e C (U)

D. Clandfield, MA, D 3e C (N)

P. Collet, AM, PhD (SM)

D. de Kerckhove, MA, PhD (SM)

L.E. Doucette, BA, PhD (University of Toronto Scarborough)

C. Elkabas, MA, PhD (University of Toronto Mississauga)

A.G. Falconer, MA, D 3e C (U)

P. Fitting, MA, PhD (N)

C.M. Grisé, MA, PhD (SM)

E.A. Heinemann, MA, PhD (N)

E. Lehouck, AGR ESS, D PhI (U)

M. Lord, MA, PhD (University of Toronto Mississauga)

P. Martin, IRAL BR, D 3e C, D Sc A (SM)

N. Maury, LenD, D 3e C (T)

J.A. McClelland, MA, PhD (V)

W.A. Oliver, MA, D 3e C (T)

J. Paterson, MA, PhD (I)

P.J.G.O. Perron, BA, D 3e C (U)

Y. Roberge, MA, PhD (SM)

D.W. Smith, BA, PhD (V)

R.A. Taylor, MA, PhD (V)

C.D.E. Tolton, AM, PhD (I, V)

T.R. Wooldridge, BA, D 3e C (T)

Chair of the Department

E. Nikiema, MA, PhD (University of Toronto Mississauga)

Graduate Chair, Graduate Studies

P. Thériault, MA, PhD (SM)

Associate Chair, Undergraduate Studies

M. Friesner, MA, PhD (SM)

Professors

J. LeBlanc, MA, PhD (V)

P. Michelucci, MA, PhD (University of Toronto Mississauga)

M. Pirvulescu, MA, PhD (University of Toronto Mississauga)

Associate Professors

A.-M. Brousseau, MA, PhD (SM)

J. Cahill, MA, PhD (I)

S. Drouin, MA, PhD (University of Toronto Scarborough)

F. Hamlaoui, MA, PhD (SM)

B. Havercroft, MA, PhD (V)

D. Kullmann, MA, PhD (SM)

A. Motsch, MA, PhD (V)

J. Ndayiragije, MA, PhD (University of Toronto Scarborough)

E. Nikiema, MA, PhD (University of Toronto Mississauga)

P. Riendeau, MA, PhD (University of Toronto Scarborough)

J. Steele, MA, PhD (University of Toronto Mississauga)

P. Thériault, MA, PhD (SM)

Associate Professors, Teaching Stream

S. Sacré, MA, PhD (SM)

M.-A. Visoi, MA, PhD (SM)

Assistant Professors

E. Dunbar, MA, PhD

A. Rannaud, L.èsL., M.èsL., PhD (University of Toronto Mississauga)

L. Tieu, MA, PhD (SM)

Assistant Professors, Teaching Stream

S. Bello, MA, PhD (SM)

M. Friesner, MA, PhD (SM)

Part-time Assistant Professor, Teaching Stream

P. Bessler, MA, PhD (OH)

Introduction

French is not only one of the official languages of Canada: it is also one of the world's major international languages. Courses in French studies provide a varied, flexible, and in-depth examination of the French language and the multitude of cultures that it serves. The skills and knowledge acquired will lay the groundwork for careers in teaching, journalism, translation, publishing, and government service as well as research in a variety of fields. In the Canadian job market, command of the French language is a definite asset. The Department offers students an integrated curriculum, which brings together courses in language, linguistics, literature, and French culture. Unless specified otherwise, the language of instruction of all courses is French.

Overview of French Programs

The Department offers two specialists (French Language and French Linguistics, French Language and Literature), three majors (French Language Learning, French Language and French Linguistics, French Language and

Literature) and two minors (French Language and French Studies).

Majors

French Language Learning (FRE): The 200-level mandatory course FSL226H1 introduces students to strategies for autonomous learning in French as a Second Language. Courses at the 300 and 400 levels build on knowledge and skills first introduced in FSL226H1 and provide students with more analytical approaches to French language learning, in its both synchronic structure and historical evolution. They encourage students to learn about the richness of culture across the French-speaking world and improve writing skills for subsequent advanced study.

What can I do with a program in French Language Learning? Career paths include:

- provincial and federal government civil service
- language teaching
- media, public relations, journalism, publishing, editing, copywriting, technical writing
- translation and interpretation
- bilingual customer service

Linguistics (FRE): 200-level mandatory courses initiate students into the analysis of contemporary French and its historical development. 300-level courses break the discipline of linguistic analysis into its chief component parts. 400-level courses initiate students to research in a variety of areas including formal linguistics, bilingualism, second language acquisition, and language contact.

What can I do with a program in French Linguistics? Possible career paths include:

- provincial and federal government civil service
- health professions such as speech pathology, speech therapy, audiology
- language teaching
- computer applications in speech & text recognition, programming
- media, public relations, journalism, publishing, editing, copywriting, technical writing
- translation and interpretation
- bilingual customer service

Literature (FRE): 200-level mandatory courses introduce students to concepts, methodologies, and critical tools elaborated vis-à-vis further literature and theory that serve as the framework for other literature courses dedicated to the history of French literature and its cultural and social contexts. 300-level courses encourage students to explore sophisticated primary and secondary sources from disciplinary and interdisciplinary perspectives. 400-level courses initiate students to research. The actual content of most 400-level courses varies considerably according

to the instructor. Students should consult the French Studies Undergraduate brochure (www.french.utoronto.ca/undergraduate) for content specific to a given year.

What can I do with a program in French Literature? Possible career paths include:

- provincial and federal government civil service
- language teaching
- media, public relations, journalism, publishing, editing, copywriting
- library and information sciences
- foreign services/affairs, international development
- translation and interpretation
- bilingual customer service

Minors

The **French Studies minor** allows students flexibility to choose from a variety of topic courses conducted in French, based on their interests. Students can either concentrate in French Literature or French Linguistics, or take a combination of courses in both areas.

The **French Language minor** focuses on improving non-native speakers' French language proficiency (grammar, reading, writing, oral French, etc.) for personal or professional purposes.

What can I do with a program in French language? Career paths include:

- provincial and federal government civil service
- bilingual opportunities within the foreign service or the border services agency
- bilingual customer service
- bilingual private sector positions

Students enrolled in two or more French programs are allowed to double-count only 1.0 credit towards their French programs.

Important Policies re French as a Second Language (FSL) Courses

The following policies must be respected when registering for French courses. Failure to do so may result in students being automatically withdrawn by the Department from the course in which they are registered:

1. Determining the appropriate level of your first French course: The Department places students in the language course appropriate to their level of linguistic competence based on the results of its Placement Test. Given that 100, 200, 300 and 400-level FSL courses correspond to levels of competence in French and not to years of study, a

student may be recommended to enroll in a course at a higher level than his/her year of study. The Placement Test, available at <https://utf.arts.utoronto.ca/login>, is mandatory for all students who wish to register in an FRE or FSL course for the first time (except true beginners with no knowledge of French who may enroll directly in FSL100H1). The Test can be taken only ONCE and the results of the first test will prevail in the event of multiple attempts. Ideally, the Placement Test should be taken in the term preceding the one in which students wish to register in (e.g., for a course starting in September, students should take the Placement Test in the summer term, prior to their registration date on ACORN and before the beginning of classes). Students will receive their results by email shortly after taking the test. Self-placement is not allowed in the Department of French. The administration reserves the right to conduct an additional test if in doubt about a student's undeclared proficiency in French.

2. Sequencing: Students are reminded that they must take FSL courses in the appropriate sequencing (100>200>300>400).
3. Auditing: No auditing is allowed in FSL courses.

Study Elsewhere Programs

For more information, please go to <https://www.french.utoronto.ca/undergraduate-program/study-elsewhere> or email: french.elsewhere@utoronto.ca

Quebec and France

Students who have completed at least one year of full-time studies and wish to study abroad for one or two semesters should contact the University of Toronto Centre for International Experience Office, or consult their [website](#). Students may request credit for a course offered by the Department of French, subject to the general rules for eligibility.

Third-Year Study Elsewhere

In order to be permitted to participate in this program, a student must satisfy the following requirements: have 1) an overall average of at least 70% in courses completed in second year; and 2) an average of 70% in at least two French (FRE) courses required in a Major or Specialist program.

Transfer Credits

- For FSL Courses:
Students may apply for transfer credits for language courses taken at any accredited or degree-granting university in Canada or abroad; this is done through the Office of the Faculty

Registrar. In order to be recommended for transfer credits, students should arrange, before returning to Toronto, for the university in which the course(s) were taken to send an official transcript of their results directly to the Office of the Faculty Registrar.

As soon as possible upon their return from the program, students who wish to obtain a transfer credit are required to book an appointment to take the placement test at the Department of French. They should call 416 926 2302 or email french.secretary@utoronto.ca. They must qualify for entry in the next language course above the level of the one for which they desire the credit. Students must enroll in the course recommended by the placement test results. No self-placement is allowed.

- For FRE Courses:
Transfer credits for studies in areas other than language may be requested directly upon return through the Office of the Faculty Registrar and will be processed in the normal way. It is recommended that a Letter of Permission and pre-approval of proposed courses be requested through the Office of the Faculty Registrar well in advance of departure from Toronto. Students are reminded that only courses taken at accredited universities or degree-granting institutions will be considered for credit.

Exclusions and prerequisites: Students must abide by all requirements stated in the exclusions and prerequisites to register in a course. Students who do not have the prerequisites for a given course must obtain the permission of the Department prior to registration. The Department will assess the students' admissibility to the course in consultation with the instructor. For FSL courses, exclusions ensure that students follow the best progression in language learning.

Further Information: The French Studies Undergraduate Brochure, available online at www.french.utoronto.ca/undergraduate, contains more detailed information concerning the courses and programs listed below.

Associate Chair, Undergraduate: Room 227, Odette Hall, 50 St. Joseph St., 416-926-2312, french.undergradchair@utoronto.ca

Undergraduate Counsellor: Room 226, Odette Hall, 50 St. Joseph St., 416-926-2333, french.undergraduate@utoronto.ca

General Enquiries: Room 210, Odette Hall, 50 St. Joseph St., 416-926-2302, french.secretary@utoronto.ca

French Programs

French Language and French Linguistics Specialist (Arts Program) - ASSPE0525

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10.0 credits)

1) (FSL220H1 and FSL222H1)/ FSL221Y1 , FSL224H1

2) FRE272H1, FRE273H1, FRE274H1, FRE245H1, (FSL320H1 and FSL322H1)/ FSL321Y1

3) FRE376H1, FRE378H1, FRE386H1/ FRE387H1, FRE383H1, FRE379H1, JFG388H1/ JFL388H1

4) FRE483H1 and 2.0 credits from 400-level French linguistics courses: FRE486H1, FRE487H1, FRE488H1, FRE489H1, FRE490Y1, FRE491H1, FRE492H1.

N.B.

i) Students not placed in FSL220H1 or higher by the Placement test must first complete FSL122H1 before starting this program.

ii) Students exempted from any of the required FSL courses must replace the relevant courses with appropriate FRE or FSL courses.

French Language and Literature Specialist (Arts Program) - ASSPE1295

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10.0 credits):

1) (FSL220H1 and FSL222H1) / FSL221Y1 , FSL225H1

2) FRE210H1, FRE245H1, FRE246H1, FRE272H1, FRE273H1, (FSL320H1 and FSL322H1)/ FSL321Y1

3) 3.0 credits from among the following courses, including at least 0.5 credit from each group:

Group 1 – Literary History: FRE318H1/ FRE319H1/ FRE320H1/ FRE324H1/ FRE326H1

Group 2 – Genres and Gender: FRE304H1/ FRE310H1/ FRE345H1

Group 3 – Quebec and Francophone Literatures: FRE314H1/ FRE332H1/ FRE334H1/ FRE336H1/ SLA263H1

4) FSL442H1, FSL443H1

5) 1.0 credit from the following 400-level FRE literature courses: FRE410H1/ FRE438H1/ FRE441H1/ FRE443H1/ FRE446H1

N.B.

i) Students not placed in FSL220H1 or higher by the Placement test must first complete FSL122H1 before starting this program. Students exempted from FSL220H1/ FSL222H1 may replace it with any FRE 200+ or FSL 300+ level course.

ii) Students exempted from FSL320H1/ FSL322H1 may replace it with any FRE course at the 300+ level.

French Language and French Linguistics Major (Arts Program) - ASMAJ0525

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits)

1) (FSL220H1 and FSL222H1)/ FSL221Y1, FSL224H1.

2) FRE272H1, FRE274H1, FRE273H1/ FRE245H1, (FSL320H1, FSL322H1)/ FSL321Y1.

3) FRE376H1, FRE378H1, FRE383H1, FRE379H1/ FRE386H1.

4) 1.0 credit from 400-level French linguistics courses: FRE483H1, FRE486H1, FRE487H1, FRE488H1, FRE489H1, FRE490Y1, FRE491H1, FRE492H1.

N.B.

i) Students not placed in FSL220H1 or higher by the Placement test must first complete FSL122H1 before starting this program. Students exempted from FSL220H1/ FSL222H1 may replace it with any FRE 200+ or FSL 300+ level course.

ii) Students exempted from FSL320H1/ FSL322H1 may replace it with any FRE course.

iii) Students exempted from FSL224H1 may replace it with JFL388H1 or any FRE 300+ course.

French Language and Literature Major (Arts Program) - ASMAJ1295

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits)

1) (FSL220H1, FSL222H1)/ FSL221Y1, FSL225H1

2) FRE210H1, FRE245H1, FRE246H1, FRE272H1, (FSL320H1, FSL322H1)/ FSL321Y1.

3) 1.5 credits from the following three groups (students are strongly encouraged to include 0.5 credit from each group):

Group 1 – Literary History: FRE318H1/ FRE319H1/ FRE320H1/ FRE324H1/ FRE326H1/

Group 2 – Genres and Gender: FRE304H1/ FRE310H1/ FRE345H1

Group 3 – Quebec and Francophone Literatures: FRE314H1/ FRE332H1/ FRE334H1/ FRE336H1/ SLA263H1

4) 1.0 credit from the following 400-level FRE literature courses: FRE410H1/ FRE438H1/ FRE441H1/ FRE443H1/ FRE446H1

N.B.

i) Students not placed in FSL220H1 or higher by the Placement test must first complete FSL122H1 before starting this program. Students exempted from FSL220H1/ FSL222H1 may replace it with any FRE 200+ or FSL 300+ level course.

ii) Students exempted from FSL320H1/ FSL322H1 may replace it with any FRE course.

French Language Learning Major (Arts Program) - ASMAJ0120

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits, including 1.5 FRE credits at the 300+ level)

1) (FSL220H1, FSL222H1)/ FSL221Y1

2) FSL226H1, FRE272H1, (FSL320H1, FSL322H1)/ FSL321Y1

3) FRE383H1, FRE379H1, JFG388H1/ JFL388H1, FRE384H1

4) (FSL420H1 and 0.5 credit selected from FRE245H1/ FRE273H1/ FRE274H1)/ FSL421Y1

5) FSL442H1, FSL443H1

N.B.

i) Students not placed in FSL220H1 or higher by the Placement test must first complete FSL122H1 before starting this program. Students exempted from any of the FSL program courses must replace these with the equivalent number of credits of additional FSL or FRE courses.

French Studies Minor (Arts Program) - ASMIN1135

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

1) (FSL220H1, FSL222H1)/ FSL221Y12) FSL224H1/ FSL225H13) 1.0 credit selected from FRE245H1, FRE246H1, FRE272H1, FRE274H14) 0.5 credit selected from CDN202H1, JFG388H1/JFL388H1, or any FRE or FCS half-course at the 200+ level

5) 1.0 FRE credit at the 300/400-level

N.B. Students not placed in FSL220H1 or higher by the Placement test must first complete FSL122H1 before starting this program. Students exempted from any of FSL220H1/ FSL222H1/ FSL224H1/ FSL225H1 must replace these credits with any combination of the following two options:

(a) any additional credit(s) from category (4) above, or

(b) any FSL credit(s) at the 300/400 level.

Regardless of exemptions, a maximum of 0.5 total program credits may be drawn from courses taught in English.

Minor in French Language (Arts Program) - ASMIN0120

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

French Courses

French First-Year Foundations

FCS194H1 - Urban Youth Languages of the World

Hours: 24S**Completion Requirements:**

(4.0 credits)

1) (FSL120H1, FSL122H1)/ FSL121Y12) (FSL220H1, FSL222H1)/ FSL221Y13) (FSL320H1, FSL322H1)/ FSL321Y1

4) 1.0 credit of FSL or FRE courses at the 200+ level

Note: Students not placed in FSL120H1 or higher by the Placement test must first complete FSL102H1 before starting this program. Students exempted from any of the required courses must replace these courses with the equivalent number of credits of additional FSL courses at the 200+ level.

Faculty of Arts & Science Language Citation

The Department of French participates in the Faculty of Arts and Science's Language Citation initiative for French.

In order to receive a language citation in French Studies, students should have completed 2.0 credits of FSL courses at the 300+ level or 2.0 credits of FRE courses at the 200+ level with a minimum grade of B- in each course. Please note that a combination of both FRE and FSL courses cannot qualify for the citation.

Students should note that, as explained in the [About Programs of Study](#) section of this Calendar, the Language Citation is not equivalent to an academic program and that enrolment in a program is not necessary in order to earn the recognition bestowed by the Citation.

Are there such phenomena as urban youth "languages"? How do they evolve and what commonalities or divergences are there? In this course, we will survey a range of urban youth languages that have emerged in African, North American and European contexts – with specific focus on their structural (linguistic) and social typicalities. Discussions and presentations will focus on the sociolinguistic concepts of language contact, bi/multilingualism, lexical innovation/renovation, language mixing, etc. in relation to youth language practices. We will be comparing major varieties of these language practices within and between the continents, and also be assessing their prospects and implications for language change. This course is taught in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

FCS196H1 - Historical, Geographic and Social Variation in French

Hours: 24S

Throughout most of its nearly 1200-year history, the language that we now call French was not a single linguistic entity, but rather a collection of related dialects. Although socio-political factors resulted in a partial unification of these dialects during the 18th and 19th centuries, the unification was, to a large extent, outweighed by French colonization of areas such as North America and Africa, which resulted in even greater linguistic diversification. The purpose of this course is to provide an overview of the extensive variation that exists throughout the French-speaking world. Topics to be covered include phonetics (pronunciation), lexicology (word selection) and morpho-syntax (grammar). This course is taught in English. No knowledge of French or linguistics is required. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

FCS197H1 - Pleasure, Pain and Nostalgia in Belle Époque

Hours: 24L

This course will explore ideas and cultural representations of 19th century France through examples from art, philosophy, and literature with an emphasis on the critical discussion of two literary narratives that challenged tradition and authority: Flaubert's "Madame Bovary" and Maupassant's "Bel-ami". The course will be held in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FCS198H1 - The Literacy of Images: Interactions between Text and Other Media

Hours: 24L

How do images create meaning in texts? How do words guide the interpretation of images? This course will examine relations between texts from different literary genres (the Bande Dessinée, fiction and autobiography) and other media (illustration, photography, cinema)

through an interdisciplinary theoretical framework, by combining perspectives from literature, cinema, illustration, and photography. The course will be held in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

FCS199H1 - Marketing in the French Speaking World

Hours: 24S

This course investigates sociocultural and linguistic issues surrounding market expansion and marketing of products and services to French-speaking audiences in Canada and elsewhere. Students consider challenges posed by increased globalization through comparisons of English- and French-speaking communities, while exploring basic marketing theory. Through case studies of successes and failures, students examine how companies develop and adapt branding and messaging for Francophone audiences by integrating differences in humour, values, politics, and financial considerations. Students thus develop an understanding of the Francophone consumer and gain skills for advertising and branding in a Francophone or bilingual environment. This course is taught in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

French Cultural Studies

FCS194H1 - Urban Youth Languages of the World

Hours: 24S

Are there such phenomena as urban youth "languages"? How do they evolve and what commonalities or divergences are there? In this course, we will survey a range of urban youth languages that have emerged in African, North American and European contexts – with specific focus on their structural (linguistic) and social typicalities. Discussions and presentations will focus on the sociolinguistic concepts of language contact, bi/multilingualism, lexical innovation/renovation, language mixing, etc. in relation to youth language practices. We will be comparing major varieties of these language practices within and between the continents, and also be assessing their prospects and implications for language change. This course is taught in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

FCS195H1 - French Culture from Napoleon to Asterix

Hours: 24L

A multi-media course, analyzing the contributions the French have made to world culture in such domains as architecture, art, literature, and music, as well as some of the implications of the appropriation of French cultural icons by big business and the media.

Breadth Requirements: Creative and Cultural Representations (1)

FCS196H1 - Historical, Geographic and Social Variation in French

Hours: 24S

Throughout most of its nearly 1200-year history, the language that we now call French was not a single linguistic entity, but rather a collection of related dialects. Although socio-political factors resulted in a partial unification of these dialects during the 18th and 19th centuries, the unification was, to a large extent, outweighed by French colonization of areas such as North America and Africa, which resulted in even greater linguistic diversification. The purpose of this course is to provide an overview of the extensive variation that exists throughout the French-speaking world. Topics to be covered include phonetics (pronunciation), lexicology (word selection) and morpho-syntax (grammar). This course is taught in English. No knowledge of French or linguistics is required. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

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Hours: 24L

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Breadth Requirements: Creative and Cultural Representations (1)

FCS198H1 - The Literacy of Images: Interactions between Text and Other Media

Hours: 24L

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Breadth Requirements: Creative and Cultural Representations (1)

FCS199H1 - Marketing in the French Speaking World

Hours: 24S

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Breadth Requirements: Society and its Institutions (3)

FCS290H1 - Special Topics in French Cultural Studies I

Hours: 24L

The relation of French popular culture to society. For more information, see <https://www.french.utoronto.ca/course-offerings-2020-2021/french-cultural-studies-courses-fcs>.

Breadth Requirements: Creative and Cultural Representations (1)

FCS291H1 - Special Topics in French Cultural Studies I

Hours: 24L

The relation of French popular culture to society. For more information, see <https://www.french.utoronto.ca/course-offerings-2020-2021/french-cultural-studies-courses-fcs>.

Breadth Requirements: Society and its Institutions (3)

FCS292H1 - Love, Sex and Desire in French Literature and Cinema

Hours: 24L

This online, asynchronous course will explore the themes of love, sex and desire in French literature and cinema through close reading, analysis, and interpretation of three major novels from the eighteenth to the twentieth literature. A comparative approach based on various examples taken from literary, philosophical texts and from film adaptations will examine the concept of love and its many definitions. Selections from ancient and modern philosophical texts on love, sex, and desire will be the starting point of our discussions: Ovid, "The Art of Love", Plato, "The Symposium", Bataille, "Eroticism", Beauvoir, "The Woman in Love", and Foucault, "The History of Sexuality".

The course will be taught in English.

Students who are proficient in French and intend to complete their readings and major tests in French (Online Essay and Online Film Analysis) in order to count this course towards a program in French (Major or Specialist only), should inform the Course Instructor of their decision by the end of the first week of classes.

N.B. Discussion Forum contributions will be submitted in English only.

Breadth Requirements: Creative and Cultural Representations (1)

FCS310Y1 - French Cinema

Hours: 48L/48P

Cinema in France with emphasis on theory and practical criticism, on auteurs and movements such as the avant-garde of the twenties and the New Wave of the late fifties. Films shown are subtitled.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: CIN105Y1

Breadth Requirements: Creative and Cultural Representations (1)

FCS369Y0 - The Culture of Touraine

Hours: 48L

This course will offer a unique opportunity to study the culture of the Touraine region while living an experience of complete immersion in Tours, a city located in the Loire Valley, a UNESCO World Heritage Site and the seat of power of the French monarchy until the 17th Century. Not eligible for CR/NCR option.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

FCS390H1 - Special Topics in French Cultural Studies II

Hours: 24L

Studies on an individual writer or specific area of literature. For more information, see <https://www.french.utoronto.ca/course-offerings-2020-2021/french-cultural-studies-courses-fcs>.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

FCS391H1 - Special Topics in French Cultural Studies II

Hours: 24L

Studies on an individual writer or a specific area of literature. For more information, see <https://www.french.utoronto.ca/course-offerings-2020-2021/french-cultural-studies-courses-fcs>.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

FCS392H1 - Special Topics in French Cultural Studies II

Hours: 24L

Studies on an individual writer or specific area of literature. The relation of French popular culture to society. For more information, see <https://www.french.utoronto.ca/course-offerings-2020-2021/french-cultural-studies-courses-fcs>.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

French Linguistics

FRE272H1 - The French Language: A Linguistic Introduction

Hours: 24L/12T

A general introduction to the structure of French language, from a linguistic perspective. Students will become acquainted with the various components of the language (sound, meaning, word formation, sentence structure) through detailed description and basic analysis of Canadian and European varieties of French. Students will also be introduced to the study of French in the context of bilingualism (second language acquisition, sociolinguistics). **This course is mandatory in all specialist and major programs.**

Prerequisite: FSL221Y1/ FSL222H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Recommended Preparation: FSL224H1/ FSL225H1

Breadth Requirements: Thought, Belief and Behaviour (2)

FRE273H1 - Introduction to the History of the French Language

Hours: 24L/12T

A discovery of a long and fascinating history, stretching from the spoken Latin of the Gauls to the many varieties of French found today all over the world via the investigation of the social, political, and cultural causes of language change. Our focus includes topics such as

medieval bilingualism, the regulation of language through the Académie française, the political use of the French language, the emergence of the Francophonie and modern Canadian French.

Prerequisite: FSL221Y1/ FSL222H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Recommended Preparation: FRE272H1 and FSL224H1/ FSL225H1

Breadth Requirements: Thought, Belief and Behaviour (2)

FRE274H1 - Introduction to the Linguistic Analysis of French

Hours: 24L/12T

An analytical study of contemporary French phonetics and phonology, morphology, syntax and semantics. This course is designed to prepare students for more advanced study of French linguistics at the 300 and 400 levels.

Prerequisite: FRE272H1, FSL224H1/ FSL225H1/ FSL320H1

Breadth Requirements: Thought, Belief and Behaviour (2)

FRE376H1 - French Phonology and Phonetics

Hours: 36L

A study of the phonological and phonetic systems of modern French based on actual samples of speech taken from different regional varieties and socio-economic groups.

Prerequisite: FRE272H1, FRE274H1

Breadth Requirements: Thought, Belief and Behaviour (2)

FRE378H1 - French Syntax

Hours: 24L

A study of the distribution and relationships of the syntagmatic components of contemporary French; of sentential structure, including the principles of coordination, subordination and expansion; and of major theoretical approaches.

Prerequisite: FRE272H1 + FRE274H1

Breadth Requirements: Thought, Belief and Behaviour (2)

FRE379H1 - Sociolinguistics of French

Hours: 36L

The relationship between language use and social factors such as socio-economic status, social context and gender of speaker. Theoretical notions are derived through the analysis of specific data, focusing on Canadian French and other varieties spoken in the Americas.

Prerequisite: FRE272H1 + FRE383H1

Breadth Requirements: Society and its Institutions (3)

FRE383H1 - Quantitative Methods for the Study of French

Hours: 24L/12T

An introduction to the foundations of quantitative research on French. Topics include differences between quantitative and qualitative analyses; hypothesis formulation; experimental design; and data collection and analysis including basic statistical methods. Phenomena investigated come from Canadian and European varieties as well as studies of second language learners.

Prerequisite: FRE272H1

Breadth Requirements: Society and its Institutions (3)

FRE384H1 - Teaching French as a Second Language

Hours: 24L

This course is designed for students who aim for a career in teaching French as a second language. It introduces recent methods and approaches and increases student understanding of pedagogical issues and curriculum expectations with a consideration of learning styles, lesson design and methods of evaluation. The course includes an experiential learning component in partnership with local school boards and private schools.

Prerequisite: FRE272H1, FSL226H1/ JFG388H1, FSL322H1/ FSL321Y1

Recommended Preparation: JFG388H1, FSL420H1/ FSL421Y1

Breadth Requirements: Creative and Cultural Representations (1)

FRE386H1 - French Semantics

Hours: 24L

Various approaches to the notion of meaning; its functioning at all levels of representation.

Prerequisite: FRE274H1

Recommended Preparation: FRE378H1

Breadth Requirements: Thought, Belief and Behaviour (2)

FRE387H1 - French Morphology

Hours: 24L

A study of the morphological system of modern French, its relationship to syntax and phonology; theoretical notions derived from the analysis of specific data.

Prerequisite: FRE272H1 + FRE274H1

Breadth Requirements: Thought, Belief and Behaviour (2)

JFL388H1 - Bilingualism, Multilingualism, and Second Language Acquisition

Previous Course Number: JFG388H1

Hours: 24L/12T

Using and encountering multiple languages is the everyday norm of people living in much of the world, including in multicultural cities like Toronto. This course offers a broad exploration of the cognitive and social underpinnings of the dynamic field of bilingualism, multilingualism, and second language acquisition. We will (i) explore the differences between bilinguals/multilinguals and monolinguals in the ways they process and use language; (ii) examine the language acquisition patterns of children and adults; (iii) investigate the interactions between an individual's language repertoires and those of their peers and local community.

Prerequisite: 4.0 credits, and any 100-level or higher language course OR introductory linguistics course (e.g., LIN200H1, FRE272H1, ITA360H1, SLA323H1/ SLA380H1, SPA322H1)

Exclusion: FRE388H1, JFG388H1

Breadth Requirements: Thought, Belief and Behaviour (2)

FRE471H1 - Medieval French Language

Hours: 12T/24S

This course aims to ensure an understanding of Old French, to read most of the medieval texts. From a selection of texts, it explores the form of the language in various centuries and regions and provide a basis for understanding the history of the French language. This course is also listed in the offerings of the Graduate department of French.

Prerequisite: FRE272H1/ FRE273H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE483H1 - Experimental Methods in French Linguistics

Hours: 36L

This course is designed to provide students with the skills and knowledge required to carry out language-related research with human subjects. The course introduces students to research design and ethics, common experimental methodologies in linguistics research, and data analysis. The course includes a practical component that will provide students with the opportunity to design and carry out a corpus study or web-based linguistics experiment. Throughout the course, students will also be encouraged to reflect on how language research can contribute to broader domains in society, including education and health.

Prerequisite: FRE383H1 or with permission of instructor

Breadth Requirements: Thought, Belief and Behaviour (2)

FRE486H1 - Special Topics in French Linguistics

Previous Course Number: JFL477H1, JFL478H1

Hours: 12T/24S

An advanced course on a particular topic in the use, acquisition, history or synchronic analysis of French. Please see the French Department website <https://www.french.utoronto.ca/undergraduate> for the description of the particular course in a given year

Prerequisite: Will vary depending upon year. Consult department website.

Exclusion: JFL478H1

Breadth Requirements: Thought, Belief and Behaviour (2)

FRE487H1 - Advanced Topics in Bilingualism and L2 acquisition

Hours: 12T/24S

This course examines how adult learners acquire various aspects of French language (vocabulary, syntax and/or phonology). It also provides in-depth, practical training in methodological design and quantitative analysis culminating in students' undertaking of individual experimental studies.

Prerequisite: FRE376H1 + FRE378H1 + FRE383H1 + FRE388H1/ JFG388H1

Breadth Requirements: Thought, Belief and Behaviour (2)

FRE488H1 - Special Topics in Advanced Linguistics I

Hours: 12T/24S

An advanced seminar on a specific aspect of French linguistics. For more information, see <https://www.french.utoronto.ca/undergraduate>.

Prerequisite: Varies according to particular course offering; consult the French Studies Undergraduate brochure (www.french.utoronto.ca/undergraduate) for exact prerequisites.

Breadth Requirements: Thought, Belief and Behaviour (2)

FRE489H1 - Special Topics in Advanced Linguistics II

Hours: 12T/24S

An advanced seminar on a specific aspect of French linguistics. For more information, see <https://www.french.utoronto.ca/undergraduate>.

Prerequisite: Varies according to particular course offering; consult the French Studies Undergraduate brochure (www.french.utoronto.ca/undergraduate) for exact prerequisites

Breadth Requirements: Thought, Belief and Behaviour (2)

French Literature

FRE210H1 - Introduction to Québec Literature and Culture

Hours: 24L/12T

An introduction to various aspects of Québec literature and culture through the study of literary texts, cinema, and artistic productions, and their role in the evolution of a distinct Québec society. The course also familiarizes students with important socio-cultural and political events, which participated in the evolution of Québec society and provide a better understanding of Québec literature.

Prerequisite: FSL221Y1/ FSL222H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Recommended Preparation: FSL224H1/ FSL225H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE245H1 - Introduction to French Cultural and Literary Studies

Previous Course Number: FRE240H1

Hours: 24L/12T

This course is a practical introduction to concepts, methods and problems of literary analysis as well as an overview of French artistic culture. Using elements of comparison from fine arts, contemporary and popular culture (including novels and movies) and a variety of emblematic works of French and Francophone literatures (among others: essays by Voltaire, Montesquieu and Simone de Beauvoir; poems by Ronsard, Hugo, Baudelaire and Césaire; excerpts from novels by George Sand, Albert Camus and Patrick Chamoiseau), its objective is to provide students with a practical introduction to the tools of literary analysis, but also to help them better read, understand and appreciate literary texts.

Prerequisite: FSL221Y1/ FSL222H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: FRE240H1

Recommended Preparation: FSL224H1/ FSL225H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE246H1 - Introduction to French Literary Analysis

Previous Course Number: FRE241H1

Hours: 36L

This course provides a general introduction to French and francophone literature of different genres and periods. Special emphasis will be placed on concepts, methods, and problems of literary analysis with the goal of helping students to improve their ability to write literary essays. Among the questions to be explored are: *What are the rules and conventions of scholarly writing? How does one develop and structure arguments to ensure that a paper is well organized? How are rhetorical devices analyzed? When and how should bibliographical references be inserted?*

Prerequisite: FRE245H1, FSL224H1/ FSL225H1/ FSL320H1

Exclusion: FRE241H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE304H1 - Contemporary French Women's Prose Fiction

Hours: 24L

An analysis of selected prose texts of the last hundred years written by major French women authors, emphasizing themes and textual strategies used to represent the female subject, her relationship to language, and the role of ethnicity, class, and gender in the construction of identity.

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE310H1 - Relations between Text and Other Media

Hours: 24L

Literary texts and other forms of media (photographs, cinematographic images, paintings) have been associated in a fascinating relation in hundreds of works of French literature. An exploration of this inextricable weaving together of verbal and visual experiences as it pertains to literature through the study of interdisciplinary theoretical texts focused on photography, painting, and cinema.

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE314H1 - Quebec and French-Canadian Literature

Hours: 24L

This course aims to explore the literature from Quebec and other French-speaking parts of Canada. Literary texts by French Canadian authors will be analyzed, and various themes such as identity (self, others, multiculturalism, nationalism), heritage (family, tradition, culture), and representations of place and linguistic values will be studied.

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1

Breadth Requirements: Thought, Belief and Behaviour (2)

FRE318H1 - Medieval French Literature

Hours: 24L

Religious fervour, chivalry, romance and ribald humour, heroic deeds, marvellous adventures, and exotic travels as found in selected texts from the French Middle Ages. Readings in modern French translations with appropriate reference to the original language.

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE319H1 - Laughter and Thought in French Renaissance Literature

Hours: 24L

An overview of the fascinating literary diversity, prose, theatre and poetry essential to the changing humanistic discourse of the French Renaissance and Baroque periods. The underscoring of important historical events - Reformation, Great Discoveries, Printing - to explain the philosophical and literary values produced by such violent times.

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE320H1 - French Literature of Classicism and Enlightenment

Hours: 24L

An introduction to French literature between Classicism and the French Revolution with particular emphasis on its relationship to philosophical, cultural, and political movements of the Enlightenment, providing historical depth to philosophical and socio-political foundations of today's life. A privileged access to, and critique of, modernity in the postmodern age.

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE324H1 - French Literature in the Time of Revolutions and Industrialization

Hours: 24L

The long 19th century (1789-1914) is characterized by change: from political upheavals to literary, scientific, and media revolutions, the spread of literacy, and the rapid development of industrialization and colonization. A study of the evolution of literature (genres, forms, movements), as influenced by these changing socio-political and economic contexts.

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE326H1 - Contemporary French Literature

Hours: 24L

Characterized by experimentation and the crisis of representation, French literature of the 20th and 21st centuries has undergone numerous transformations in form, content, and generic boundaries. A study of these literary movements, trends, and transgressions in poetry, prose, and theatre.

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE332H1 - Francophone Literatures

Hours: 24L

A comprehensive introduction to Francophone literatures and cultures, examining the linguistic, aesthetic, and discursive specificities as represented by authors of the Francophone world. Focus on the concepts of colonialism, representation, alienation, emigration, and nationalism.

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE334H1 - Francophone Cinema

Hours: 24L

Through films from across the spectrum of the Francophone world, a study of the diversity of the French colonial empire as well as the different aesthetic, historical, and cultural effects of colonialism and post-independence experience on various cinematic representations.

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE336H1 - Postcolonialism: Francophone Literatures

Hours: 24L

The fundamentals of postcolonial theories, with emphasis on how they relate to the Francophone world. The dialogue between fiction and theory, as well as the modalities of a coherent Francophone postcolonial identity in a global world.

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1

Breadth Requirements: Thought, Belief and Behaviour (2)

FRE345H1 - Literary Genres

Hours: 24L

Survey of the main literary genres and analysis of their features, with in-depth study of two of the genres: narrative (epic poem, novel, short narrative), lyric poetry,

drama (tragedy, comedy, farce, mystery play), essay. Readings of selected texts, chosen for their representative potential and their historical relevance.

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE410H1 - Advanced Topics in Quebec Literature:

Hours: 24S

An advanced interdisciplinary research seminar devoted to specific issues of Québécois literature and culture. Focus on a literary genre, a particular subject matter, a literary movement, or based on a multidisciplinary approach to cinema, arts, and music. For more information, see <https://www.french.utoronto.ca/undergraduate>

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1, FRE345H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE438H1 - Advanced Topics in Francophone Literatures

Hours: 24S

An advanced seminar dedicated to specific issues of the Francophone literature and culture. Focusing on an author, a literary genre, or based on a multidisciplinary approach involving cinema, arts and music, each seminar reflects the professor's current research. For more information, see <https://www.french.utoronto.ca/undergraduate>

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1, FRE345H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE441H1 - Advanced Topics in French Literature

Hours: 24S

An advanced, research-oriented seminar devoted to specific issues of French literature and culture. Focus on a literary genre, a particular subject or literary movement, or based on a multidisciplinary approach involving cinema,

arts, and music. For more information, see <https://www.french.utoronto.ca/undergraduate>

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1, FRE345H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE443H1 - Advanced Topics: Authors

Hours: 24S

An advanced, research-oriented seminar devoted to questions concerning the authors practice, originality, and oeuvre. Production, performance and prominence, characteristic genres, religious and philosophical thought, theoretical reflection on literature, language, and belonging as aspects of the analysis of one single authors body of writing. For more information, see <https://www.french.utoronto.ca/undergraduate>

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1, FRE345H1

Breadth Requirements: Creative and Cultural Representations (1)

FRE446H1 - Advanced Studies in Literary Theory

Hours: 24S

An advanced, research-oriented course devoted to specific issues in French literary theory. Focus on particular theoretical concepts, paradigms, schools, trends, movements or major thinkers. For more information, see <https://www.french.utoronto.ca/undergraduate>

Prerequisite: FRE240H1/ FRE245H1, FRE241H1/ FRE246H1, FRE345H1

Breadth Requirements: Creative and Cultural Representations (1)

French as a Second Language

FSL100H1 - Elementary French I

Hours: 24L/12T

An intensive basic course in spoken and written French for students who have no knowledge of French: comprehension, speaking, reading, and writing.

Prerequisite: No previous knowledge of French.

Exclusion: FSL102H1, FSL120H1, FSL121Y1, FSL122H1, FSL 200+ level courses

Breadth Requirements: Creative and Cultural Representations (1)

FSL102H1 - Elementary French II

Hours: 24L/12T

An intensive basic course in spoken and written French for students who have studied some French, but who have not yet attained the entry level for FSL120H1.

Prerequisite: FSL100H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: FSL120H1, FSL121Y1, FSL122H1, FSL 200+ level courses

Breadth Requirements: Creative and Cultural Representations (1)

FSL120H1 - Elementary French III

Previous Course Number: FSL121Y1

Hours: 24L/24T

This is the first of a two-course series intended for students having some knowledge of French but wishing to increase their proficiency to that of normal University entrance. Offers training in written and spoken French; reinforcement of reading comprehension and aural abilities; and an introduction to French-Canadian and Québécois cultures.

Prerequisite: FSL102H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: FSL121Y1, FSL122H1, FSL 200+ level courses

Breadth Requirements: Creative and Cultural Representations (1)

FSL122H1 - Elementary French IV

Previous Course Number: FSL121Y1

Hours: 24L/24T

This is the second of a two-course series intended for students having some knowledge of French but wishing to increase their proficiency to that of normal University entrance. Offers training in written and spoken French; reinforcement of reading comprehension and aural abilities; and an introduction to French-Canadian and Québécois cultures.

Prerequisite: FSL120H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: FSL121Y1, FSL 200+ level courses

Breadth Requirements: Creative and Cultural Representations (1)

FSL195Y0 - French Language in Tours I

Hours: 48L/48T

Intended for students having some knowledge of French but wishing to increase their proficiency to that of normal University entrance through complete immersion in French language and culture in Tours, France. Offers training in written and spoken French; reinforcement of reading comprehension and aural abilities; and an introduction to French culture of the Touraine region. Specific course content will depend on language placement according to the Institut de Touraine. Students must write the in-person Faculty of Arts & Science (St. George) Department of French placement test upon their return to Toronto to determine their appropriate next level.

(This course is offered only during the Summer Session through the Summer Abroad Program. Details related to the timetable and deadlines are posted on the Summer Abroad website at <https://summerabroad.utoronto.ca/>.)

Prerequisite: Placement as determined by the Institut de Touraine Placement Test. Details related to the timetable and deadlines are posted on the Summer Abroad website at <https://summerabroad.utoronto.ca/>.

Exclusion: FSL121Y1, FSL121Y0, FSL122H1, FSL220H1, FSL221Y1, FSL221Y0, FSL222H1, FSL224H1, FSL225H1, FSL226H1, FSL271H1, FSL295Y0, FSL312H1, FSL313H1, FSL314H1, FSL315H1, FSL320H1, FSL321Y1, FSL321Y0, FSL322H1, FSL375H1, FSL375Y1, FSL415H1, FSL420H1, FSL421Y1, FSL421Y0, FSL442H1, FSL443H1, FSL442H0, FSL443H0, FSL472H1, FSL473H1, FSL475H1, FRE210H1, FRE245H1, FRE272H1, FRE273H1

Breadth Requirements: Creative and Cultural Representations (1)

FSL220H1 - Intermediate French I

Previous Course Number: FSL221Y1

Hours: 24L/24T

This is the first of a two-course series intended for those who have some knowledge of French, this course is the first in a proficiency-sequenced series that provides students with the opportunity to become proficient, focused, autonomous French language learners. The course's main objective is to provide a communicative

learning environment through activities based in real-world, everyday contexts.

Prerequisite: FSL121Y1/ FSL122H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: FSL221Y1, FSL222H1, FSL224H1, FSL225H1, FSL226H1, FSL271H1, FSL 300+ level courses

Breadth Requirements: Creative and Cultural Representations (1)

FSL222H1 - Intermediate French II

Previous Course Number: FSL221Y1

Hours: 24L/24T

This is the second of a two-course series intended for those who have some knowledge of French, this course is the first in a proficiency-sequenced series that provides students with the opportunity to become proficient, focused, autonomous French language learners. The course's main objective is to provide a communicative learning environment through activities based in real-world, everyday contexts.

Prerequisite: FSL220H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: FSL221Y1, FSL226H1, FSL271H1, FSL 300+ level courses

Breadth Requirements: Creative and Cultural Representations (1)

FSL224H1 - Practical French for Exploring Linguistics

Hours: 36L

This course is designed to present students with the practical skills, grammatical knowledge and metalinguistic awareness needed to engage with introductory French linguistics courses. Students will hone higher-order analytical skills related to French language and linguistics through comprehension and production exercises and activities. A variety of textual excerpts selected from several subfields of linguistics will allow exposure to the basic elements of French linguistics through which students will develop awareness and comfort with academic writing and academic discourse in French. Emphasis is on the appropriate use of formal registers, terminology, incorporation of logical connectors and analytical thinking in written and spoken French.

Prerequisite: FSL220H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Corequisite: FSL222H1

Exclusion: FSL225H1, FSL312H1, FSL313H1, FSL314H1, FSL315H1, FSL322H1, FSL375Y1, FSL375H1, FSL 400-level courses.

Breadth Requirements: Creative and Cultural Representations (1)

FSL225H1 - Practical French for Exploring Literature

Hours: 36L

This course is designed to present students with the practical skills, grammatical knowledge and metalinguistic awareness needed to engage with introductory French literature courses. Students will hone higher-order analytical skills related to French language and literature through comprehension and production exercises and activities. A variety of textual excerpts selected from geographically diverse essays, poetry and novels will allow exposure to the basic elements of French literary analysis through which students will develop awareness and comfort with academic writing and academic discourse in French. Emphasis is on the appropriate use of formal registers, terminology, incorporation of logical connectors and analytical thinking in written and spoken French.

Prerequisite: FSL220H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Corequisite: FSL222H1

Exclusion: FSL224H1, FSL312H1, FSL313H1, FSL314H1, FSL315H1, FSL322H1, FSL375Y1, FSL375H1, FSL 400-level courses.

Breadth Requirements: Creative and Cultural Representations (1)

FSL226H1 - Strategies for Autonomous Learning in French as a Second Language

Previous Course Number: FRE226H1

Hours: 24L/12T

This course provides French language learners with an understanding of how one best acquires French as a second or third language including various FSL strategies that allow for effective, autonomous learning. It further implements a structure to encourage continuous active reflection and self-assessment. Students will first learn about the types of knowledge and sub-skills that must be acquired to master French including vocabulary and grammar. Language benchmarks and self-evaluation tools are then introduced to help learners to profile their four main competences (reading, writing, listening, and speaking). Subsequently, they will receive practical

training in the use of specific online resources (e.g., *Bon Patron*) geared towards improving French writing.

Prerequisite: FSL221Y1/ FSL222H1

Corequisite: FSL321Y1/ FSL320H1/ FSL322H1, as determined by the French Placement Test

Exclusion: FRE226H1, FRE225Y1/ JFI225Y1, FSL375H1, FSL375Y1, FSL 400-level courses

Breadth Requirements: Thought, Belief and Behaviour (2)

FSL295Y0 - French Language in Tours II

Hours: 48L/48T

Intended for those who have some knowledge of French, this course provides students with the opportunity to become proficient, focused, autonomous French language learners through complete immersion in French language and culture in Tours, France. The course's main objective is to provide a communicative learning environment through activities based in real-world, everyday contexts, as well as an introduction to French culture of the Touraine region. Specific course content will depend on language placement according to the Institut de Touraine. Students must write the in-person Faculty of Arts & Science (St. George) Department of French placement test upon their return to Toronto to determine their appropriate next level.

(This course is offered only during the Summer Session through the Summer Abroad Program. Details related to the timetable and deadlines are posted on the Summer Abroad website at <https://summerabroad.utoronto.ca/>.)

Prerequisite: Placement as determined by the Institut de Touraine Placement Test. Details related to the timetable and deadlines are posted on the Summer Abroad website at <https://summerabroad.utoronto.ca/>.

Exclusion: FSL312H1, FSL313H1, FSL314H1, FSL315H1, FSL320H1, FSL321Y1, FSL321Y0, FSL322H1, FSL375H1, FSL375Y1, FSL415H1, FSL420H1, FSL421Y1, FSL421Y0, FSL442H1, FSL443H1, FSL442H0, FSL443H0, FSL472H1, FSL473H1, FSL475H1

Breadth Requirements: Creative and Cultural Representations (1)

FSL312H1 - Writing French: the Language of the Media

Previous Course Number: FSL362H1

Hours: 36L

Using current online French media, broaden your understanding of the French language; deepen your grammatical knowledge; expand your vocabulary

(including idioms); review key aspects of French syntax; and fine-tune your reading skills in French. Weekly reading and writing workshops are an integral part of this course.

Prerequisite: FSL221Y1 (63%)/ FSL222H1 (63%).

Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: FSL320H1, FSL321Y1, FSL322H1, FSL375H1, FSL375Y1, FSL 400-level courses. Students who are fluent French speakers or whose command of the French language is equivalent to near-native proficiency must contact the Department of French before enrolling in this course.

Breadth Requirements: Creative and Cultural Representations (1)

FSL314H1 - French for the Arts

Previous Course Number: FSL364H1

Hours: 36L

Introduction to the study of central themes in French artistic expression, designed to familiarize students with key concepts and vocabularies relevant to the subject. Study of modes of artistic representation, (visual, performing arts) and their contribution to the rich heritage and identity of French culture. Observation, description and analysis of various artistic mediums.

Prerequisite: FSL221Y1 (63%)/ FSL222H1 (63%).

Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: FSL320H1, FSL321Y1, FSL322H1, FSL375H1, FSL375Y1, FSL 400-level courses. Students who are fluent French speakers or whose command of the French language is equivalent to near-native proficiency must contact the Department of French before enrolling in this course.

Breadth Requirements: Creative and Cultural Representations (1)

FSL315H1 - French Oral Communication for Professional and Academic Contexts

Hours: 36L

This course is designed for students who wish to develop their oral communication skills in French in preparation for bilingual employment, community service, and academic activities in Canada and abroad. Emphasis is placed on the development of skills for accurate oral language use in professional and academic contexts: researched oral presentations, debates, interviews, and student-led discussions. Students will learn how to adapt their

speaking style and register to different audiences and situations, use appropriate vocabulary, and self-correct.

Prerequisite: FSL221Y1 (63%)/ FSL222H1 (63%).

Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: FSL320H1, FSL321Y1, FSL322H1, FSL375H1, FSL375Y1, FSL 400-level courses. Students who are fluent French speakers or whose command of the French language is equivalent to near-native proficiency must contact the Department of French before enrolling in this course.

Breadth Requirements: Creative and Cultural Representations (1)

FSL320H1 - Intermediate French III

Previous Course Number: FSL321Y1

Hours: 36L

This is the first of a two-course series intended for students who have already mastered the basic competences in French language proficiency. The materials used in this course adopt an active approach which puts emphasis on the student being at the centre of the learning process. Students will learn the following intermediate-level language skills: writing, speaking as well as understanding written and spoken French.

Prerequisite: FSL221Y1/ FSL222H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: FSL321Y1, FSL322H1, FSL375Y1, FSL375H1, FSL 400-level courses. May not concurrently take FSL312H1, FSL313H1, FSL314H1, FSL315H1. Students who are fluent French speakers or whose command of the French language is equivalent to near-native proficiency must contact the Department of French before enrolling in this course.

Breadth Requirements: Creative and Cultural Representations (1)

FSL322H1 - Intermediate French IV

Previous Course Number: FSL321Y1

Hours: 36L

This is the second of a two-course series intended for students who have already mastered the basic competences in French language proficiency. The materials used in this course adopt an active approach which puts emphasis on the student being at the centre of the learning process. Students will learn the following intermediate-level language skills: writing, speaking as well as understanding written and spoken French.

Prerequisite: FSL320H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: FSL321Y1, FSL375Y1, FSL375H1, any FSL 400-level course. May not be taken concurrently with FSL312H1, FSL313H1, FSL314H1, FSL315H1. Students who are fluent French speakers or whose command of the French language is equivalent to near-native proficiency must contact the Department of French before enrolling in this course.

Breadth Requirements: Creative and Cultural Representations (1)

FSL375H1 - Practical Translation: French - English

Previous Course Number: FSL375Y1

Hours: 36L

This half-year course, which works as an introduction to translation, is designed to improve students' mastery of French through English to French and French to English translations. Emphasis is on the practice of translation of a variety of texts and documents, and on the introduction to the practice of oral interpretation from one language to the other.

Prerequisite: 1.0 credit in FSL at the 300-level

Exclusion: FSL375Y1, FSL415H1, FSL442H1, FSL443H1, FSL472H1, FSL473H1, FSL475H1. Students who are fluent French speakers or whose command of the French language is equivalent to near-native proficiency must contact the Department of French before enrolling in this course.

Breadth Requirements: Creative and Cultural Representations (1)

FSL415H1 - Business French

Hours: 36S

This course is designed to strengthen oral and written communication skills in French and develop intercultural competence for a variety of career paths including public relations, international development, federal and provincial government. Students will gain expertise in spoken and written French through in-class activities supported by multimedia.

Prerequisite: FSL321Y1/ FSL322H1/ FSL315H1.

Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: Students who are fluent French speakers or whose command of the French language is equivalent to near-native proficiency must contact the Department of French before enrolling in this course.

Breadth Requirements: Thought, Belief and Behaviour (2)

FSL420H1 - Advanced French I

Previous Course Number: FSL421Y1

Hours: 36L

This advanced course in French aims to provide students with a broader understanding and appreciation of French and Francophone culture through the reading and discussion of a variety of texts. Emphasis is placed on mastery of language skills such as reading comprehension and vocabulary, oral and written communication. Students will have access to multimedia materials, online reference and self-correction tools.

Prerequisite: FSL321Y1/ FSL322H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: FSL421Y1, FSL442H1, FSL443H1, FSL472H1. Students who are fluent French speakers or whose command of the French language is equivalent to near-native proficiency must contact the Department of French before enrolling in this course.

Breadth Requirements: Creative and Cultural Representations (1)

FSL442H1 - Advanced Written French II

Hours: 36L

Designed for students who wish to consolidate and perfect their writing abilities. Skills developed include the mastery of register-based differences; use of rhetorical and stylistic techniques and systematic self-correction.

Prerequisite: FSL421Y1/ FSL420H1. Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: Students who are fluent French speakers or whose command of the French language is equivalent to near-native proficiency must contact the Department of French before enrolling in this course.

Breadth Requirements: Creative and Cultural Representations (1)

FSL443H1 - Advanced Oral French II

Hours: 36L

This course is designed for students who wish to consolidate and perfect their oral (speaking and listening) abilities. Oral production and improvement of pronunciation will be practiced through reading exercises, presentations, debates, and discussions focusing on a

rich vocabulary and contextually appropriate speech registers. Training in the comprehension of spoken French will aim at the development of students' listening skills through the study of recordings related to various situations and topics.

Prerequisite: FSL421Y1/ FSL420H1/ FSL375Y1/ (FSL375H1, 0.5 credit in FRE at the 200-level). Students may also fulfill this prerequisite requirement based on the results of their French Placement Test.

Exclusion: FSL473H1. Students who are fluent French speakers or whose command of the French language is equivalent to near-native proficiency must contact the Department of French before enrolling in this course.

Breadth Requirements: Creative and Cultural Representations (1)

French before enrolling in this course.

Breadth Requirements: Creative and Cultural Representations (1)

FSL472H1 - Reading and Writing Fiction and Non-Fiction in French

Hours: 36L

An online course designed for students who wish to further develop their reading and writing skills in French. Students will acquire analytic tools to comprehend, analyze and write fiction and non-fiction texts. Multimedia approach to understanding the cultural experiences of francophone world.

Prerequisite: FSL375Y1/ (FSL375H1, 0.5 credit in FRE at the 200-level)/ FSL420H1

Exclusion: FSL442H1. Students who are fluent French speakers or whose command of the French language is equivalent to near-native proficiency must contact the Department of French before enrolling in this course.

Breadth Requirements: Creative and Cultural Representations (1)

FSL475H1 - Creative Writing in French

Hours: 36L

Do you like creative writing? Are you simply curious about it? Do you want to hone your writing skills in French and develop your creative voice in the process? Then this course is for you. Part workshop in which constructive and supportive feedback will help you develop your writing in French and your creativity, part literary discussion on various aspects of literary technique such as character, setting, plot, point of view, structure or revision (through reading).

Prerequisite: FSL375Y1/ FSL375H1/ FSL421Y1/ FSL420H1

Exclusion: Students who are fluent French speakers or whose command of the French language is equivalent to near-native proficiency must contact the Department of

Geography and Planning

Faculty List

Professors Emeriti

L.S. Bourne, MA, PhD, FRSC, DES Hons
 J.N.H. Britton, MA, PhD
 R.B. Bryan, BA, PhD
 I. Burton, PhD, FRSC
 A.J. Dakin, PhD, ARIBA, FRTPI
 A.G. Daniere, MPP, PhD
 R. Lewis, MA, PhD
 E.C. Relph, MPhil, PhD
 S.T. Roweis, MSc (PI), PhD (I)
 S. Ruddick, MA, PhD
 T. Smith, MSc, PhD
 A. Waterhouse, MSc (PI), PhD

Associate Professor Emeritus

A. M. Davis, PhD
 V. Maclaren, MPI, MS, PhD

Associate Professor and Chair of the Department

M. Widener, MSc, PhD

Professor and Graduate Chair

S. Wakefield, MA, PhD

Associate Professor and Undergraduate Chair

P. Hess, MEP, PhD (July 1, 2024)

Professors

H. Bathelt, MSc, MA, PhD
 K. Chapple, M.S.C.R.P, PhD
 J.M. Chen, BSc, PhD, FRSC
 D. Cowen, MScPI, PhD
 J.R. Desloges, MSc, PhD
 M.S. Gertler, MCP, PhD, FRSC
 E. Gilbert, MA, PhD
 K. Goonewardena, MPI, PhD
 J. Hackworth, MA, MEP, PhD
 L.D.D. Harvey, MSc, PhD
 D. Leslie, MA, PhD
 J. Liu, PhD
 B. Mullings, MSc, PhD
 W.S. Prudham, MA, PhD
 K.N. Rankin, MRP, PhD
 M. Siemiatycki, MSc, PhD
 R. Silvey, MA, PhD

Professor, Teaching Stream

D. Boyes, MSc, PhD

Associate Professors

C. Abizaid, MA, PhD
 A. Boland, MAIS, PhD
 R.J. DiFrancesco, MA, PhD
 M. Farish, BA, PhD
 V. Maclaren, MPI, MS, PhD
 N. Singh, MFM, PhD
 J. Zhang, MS, PhD

Associate Professor, Teaching Stream

D. Roberts, MA, PhD

Assistant Professors

M. Daigle, MA, PhD
 H. Dorries, MScPI, PhD
 T. Redden, MS, PhD
 L. Smith, Msc, MPhil, PhD
 N. Subramanyam, MRP, PhD

Assistant Professors, Teaching Stream

A. Mehta, PhD
 S. Peirce, MSc, PhD

Introduction

Geography is the study of the environments created on the earth's surface by nature and people. The physical and biological elements of these environments, as well as their economic and social structure, historical development, spatial organization, interrelationships, management and planning form the subject matter of Geography. Geography, therefore, relates closely to other fields in natural science, social science and the humanities, and geographers take courses in these related fields along with their geography courses. Students specializing in other subjects often select one or more geography courses to deepen their understanding of the cities, culture, economies and environments of those parts of the world in which they are interested.

Employment opportunities for geographers exist in many branches of international organizations, government, industry, and education. Geographers work at all levels of government service, especially in agencies responsible for environmental management; land and resource analysis; development of historic districts and sites; urban transportation planning; urban and regional development planning; trade promotion; community social services; geographic systems design and data analysis; transport network design and the processing of archival, survey, and cartographic information. In business, geographers work in marketing, locational analysis, resource development, and in consulting firms engaged in project evaluation, land use planning and natural heritage conservation. They often also find work in the non-profit sector as policy analysts, cartographers and geographic information science specialists, community organizers, and educators.

The Department offers Specialist, Major and Minor Programs in different branches of Geography, and contributes courses to various college, departmental and school programs including American Studies; Anthropology; Archaeology; Canadian Studies; Caribbean Studies; Critical Studies in Equity and Solidarity, Diaspora and Transnational Studies; East Asian Studies; Earth Sciences; Environmental Science and Environmental Studies; Indigenous Studies; Peace and Conflict Studies; Urban Studies; and Women and Gender Studies.

Associate Chair, Undergraduate:
Professor P. Hess, Sidney Smith Hall, Room 5067,
paul.hess@utoronto.ca (effective July 1, 2024)

Undergraduate Administrator and Advisor:
K. Giesbrecht, Sidney Smith Hall, Room 5044,
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Website: <https://www.geography.utoronto.ca/undergraduate>

Regarding Geography and Planning Programs

Admission to major and specialist programs will be determined by a student's mark in 0.5-1.0 GGR credits at the 100 and/or 200-level. See program descriptions for details on the entry requirements. These are limited enrolment programs that can only accommodate a limited number of students. Achieving the marks required does not necessarily guarantee admission to the program in any given year.

Double majors in Geography may only overlap 1.0 credit. Students combining any of our Minor programs with a Specialist/Major program would normally be allowed to overlap only 1.5 credits towards both programs. Double minors can overlap 1.0 credit. Students combining the Focus in Planning and the Focus in Urban Geography can overlap 1.5 credits. Students that choose to specialize or major in one of the three Geography programs cannot minor in the same program but may do so in another Geography program.

Generally, students may only take 1.0 credit of an Independent Research Project toward their program requirements.

Geography and Planning Programs

Human Geography Specialist (Arts Program) - ASSPE1667

The Human Geography programs provide the opportunity to learn about the relations between landscapes, places, people and nature, and the spatial organization of human activities. While students are encouraged to explore the breadth of the discipline, we also identify courses by theme for students who wish to develop expertise in one or two subfields (e.g., urban geography, cultural and historical geography). The Human Geography programs appeal to students who wish to develop an integrative understanding of the cultural, economic, political and social forces that shape how people use and experience the environments they live in. These programs offer training in quantitative and qualitative research methods, including GIS and Remote Sensing.

Note: Students combining any of our Specialist programs with a Minor Geography program will normally be allowed to overlap only 1.5 credits towards both programs.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- 0.5 credit in GGR courses at the 100- or 200-level, with a minimum grade of 75%, or
- 1.0 credit in GGR courses at the 100- or 200-level, with a minimum grade of 70%

To ensure that students admitted to the program will be successful, applicants with a final grade or grade average lower than the minimum grades stated above will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program. Jointly-offered GGR courses will also be considered (e.g. JEG, JGI, JGE).

Completion Requirements:

First Year Geography Courses: Any 2 courses (1.0 credit) from [JEG100H1](#), [GGR101H1](#), [GGR107H1](#), [GGR112H1](#), [GGR124H1](#), [GGR172H1](#), [GGR196H1](#), [GGR197H1](#), [GGR198H1](#), [GGR199H1](#). 200/300-level GGR courses

may also be used to meet this requirement. Contact the Undergraduate Administrator to update your program.

Physical and Environmental Geography Course: Any course (0.5 credit) not used to satisfy first year course requirement from JEG100H1, GGR101H1, GGR201H1, GGR203H1, GGR205H1, GGR206H1, GGR223H1

Methods Courses: All (1.5 credits) of GGR270H1, GGR271H1, GGR272H1

Regional Geography Course: Any course (0.5 credit) from GGR240H1, GGR246H1, GGR254H1, GGR341H1, GGR342H1, GGR343H1, GGR344H1

Fourth Year Courses: Any 2 (1.0 credit) 400-level GGR courses, at least one of which must be from Group E. Up to one 0.5 credit can be used from GGR493Y1, based on suitability of placement for this program, and approved by department.

Applications: Any 11 courses (5.5 credits) from Group E; Up to 1.5 credits can be from Group F. Up to 1.0 credit can be used from GGR493Y1, based on suitability of placement for this program, and approved by department.

Note: At least 4.0 credits must be 300/400-level courses. Of these, at least 1.0 credit must be at the 400-level (includes Fourth Year Course requirement).

Total credits: 10.0

Group E (Human Geography Courses):

GGR217H1, GGR221H1, GGR223H1, GGR225H1,
GGR240H1, GGR246H1, GGR251H1, GGR252H1,
GGR254H1, GGR259H1, GGR272H1, GGR273H1,
GGR274H1, GGR299Y1, GGR320H1, GGR323H1,
GGR324H1, GGR326H1, GGR327H1, GGR328H1,
GGR329H1, GGR332H1, GGR334H1, GGR336H1,
GGR338H1, GGR339H1, GGR340H1, GGR341H1,
GGR342H1, GGR343H1, GGR344H1, GGR349H1,
GGR354H1, GGR357H1, GGR359H1, GGR360H1,
GGR363H1, GGR372H1, GGR373H1, GGR374H1,
GGR375H1, GGR376H1, GGR377H1, GGR382H1,
GGR386H1, GGR387H1, GGR389H1, GGR400H1,
GGR416H1, GGR418H1, GGR419H1, GGR421H1,
GGR424H1, GGR428H1, GGR429H1, GGR430H1,
GGR431H1, GGR432H1, GGR433H1, GGR434H1,
GGR437H1, GGR438H1, JGC439H1, GGR456H1,
GGR458H1, GGR460H1, GGR462H1, GGR472H1,
GGR473H1, GGR481H1, GGR482H1, GGR491Y1,
GGR492H1, GGR496H1, GGR497H1, GGR499H1,
JGE321H1, JGE331H1, JIG322H1, JIG440H1,
JUG320H1, JUG325H1, JGI216H1, JGU216H1,
JGI346H1, JGU346H1, JGI454H1, JGU454H1

Group F (Optional Science Courses for Human Geography):

GGR201H1, GGR203H1, GGR205H1, GGR206H1,
GGR301H1, GGR305H1, GGR308H1, GGR310H1,

GGR314H1, FOR310H1, GGR315H1, GGR337H1,
GGR347H1, GGR348H1, GGR388H1, GGR401H1,
GGR405H1, GGR406H1, GGR413H1, GGR414H1,
GGR415H1, GGR498H1

Focus in Planning (Specialist) - ASFOC1667B

The Planning Focus provides students with the opportunity to learn about how planning is a key component of the dynamic relations that exist between places, policy, power, and people. It focuses in on the conscious choices and decision made by various groups to shape the spatial organization of human activities. The Planning Focus will appeal to students who wish to develop an integrative understanding of the cultural, economic, political and social forces that shape the development and redevelopment of metropolitan and rural regions. Students are encouraged to explore the breadth of our courses that engage planning questions in relation to transportation, social segregation, health and housing, economic policy, environment change, and globalization.

Enrolment Requirements:

Enrolment in the Human Geography Specialist (ASSPE1667) program is required.

Completion Requirements:

Core (required) Courses: 1.0 credit from GGR217H1 and JGI346H1/ JGU346H1

Planning Electives: 1.5 credits from GGR241H1, GGR259H1, JIG322H1, GGR338H1, GGR339H1, GGR343H1, GGR349H1, GGR354H1, GGR357H1, GGR359H1, GGR416H1, GGR424H1, GGR428H1, GGR433H1, GGR434H1, GGR456H1, GGR460H1, GGR493Y1 (0.5 credit can be used based on internship)

Note: At least 1.0 credit must be 300/400-level courses.

Focus in Urban Geography (Specialist) - ASFOC1667S

The Focus in Urban Geography provides students with the opportunity to emphasize urban geography as part of their Human Geography specialist or major. Urban geography focuses on the political, social, cultural and economic processes that shape city life, development and policy. This focus will appeal to students registered in the Human Geography specialist or major program who wish to develop an integrative understanding of the dynamics that shape the urban realm. Students are encouraged to explore the breadth of our course offerings in housing, historical, political and transportation.

Enrolment Requirements:

Enrolment in the Human Geography Specialist (ASSPE1667) program is required.

Completion Requirements:

Required Urban Geography Courses: 1.0 credit from GGR124H1, GGR241H1, JGI216H1/ JGU216H1, GGR259H1

Urban Geography Electives: 1.5 credits from GGR241H1, GGR259H1, GGR336H1, GGR339H1, GGR349H1, GGR357H1, GGR359H1, GGR374H1, GGR382H1, GGR424H1, GGR458H1, GGR460H1, GGR482H1

Note: At least 1.0 credit must be 300/400-level courses.

Human Geography Major (Arts Program) - ASMAJ1667

The Human Geography programs provide the opportunity to learn about the relations between landscapes, places, people and nature, and the spatial organization of human activities. While students are encouraged to explore the breadth of the discipline, we also identify courses by theme for students who wish to develop expertise in one or two subfields (e.g., urban geography, cultural and historical geography). The Human Geography programs appeal to students who wish to develop an integrative understanding of the cultural, economic, political and social forces that shape how people use and experience the environments they live in. These programs offer training in quantitative and qualitative research methods, including GIS and Remote Sensing.

Note: Double majors in Geography may only overlap 1.0 credit. Students combining any of our Minor programs with a Major Geography program will normally be allowed to overlap only 1.5 credits towards both programs.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- 0.5 credit in GGR courses at the 100- or 200-level, with a minimum grade of 67%, or
- 1.0 credit in GGR courses at the 100- or 200-level, with a minimum grade of 63%

To ensure that students admitted to the program will be successful, applicants with a final grade or grade average lower than the minimum grades stated above will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program. Jointly-offered GGR courses will also be considered (e.g. JEG, JGI, JGE).

Completion Requirements:

First Year Geography Courses: Any two courses (1.0 credit) from JEG100H1, GGR101H1, GGR107H1, GGR112H1, GGR124H1, GGR172H1, GGR196H1, GGR197H1, GGR198H1, GGR199H1. 200/300-level GGR courses may also be used to meet this requirement. Contact the Undergraduate Administrator to update your program.

Physical and Environmental Geography Course: Any course (0.5 credit) not used to satisfy first year course requirement from JEG100H1, GGR101H1, GGR201H1, GGR203H1, GGR205H1, GGR206H1, GGR223H1

Methods Courses: All (1.0 credit) of GGR270H1, GGR271H1

Regional Geography Course: Any course (0.5 credit) from GGR240H1, GGR246H1, GGR254H1, GGR341H1, GGR342H1, GGR343H1, GGR344H1

Fourth Year Course: Any course (0.5 credit) from 400-level courses from Group E.

Applications: Any 7 courses (3.5 credits) from Group E; Up to 1.0 credit can be from Group F. Up to 1.0 credit can be used from GGR493Y1, based on suitability of placement for this program, and approved by department.

Note: At least 2.0 credits must be 300/400-level courses. Of these, at least 0.5 must be at the 400-level (includes Fourth Year Course requirement).

Total credits: 7.0

Group E (Human Geography Courses)

GGR217H1, GGR221H1, GGR223H1, GGR225H1, GGR240H1, GGR246H1, GGR251H1, GGR252H1, GGR254H1, GGR259H1, GGR272H1, GGR273H1, GGR274H1, GGR299Y1, GGR320H1, GGR323H1, GGR324H1, GGR326H1, GGR327H1, GGR328H1, GGR329H1, GGR332H1, GGR334H1, GGR336H1, GGR338H1, GGR339H1, GGR340H1, GGR341H1, GGR342H1, GGR343H1, GGR344H1, GGR349H1, GGR354H1, GGR357H1, GGR359H1, GGR360H1, GGR363H1, GGR372H1, GGR373H1, GGR374H1, GGR375H1, GGR376H1, GGR377H1, GGR382H1, GGR386H1, GGR387H1, GGR389H1, GGR400H1, GGR416H1, GGR418H1, GGR419H1, GGR421H1, GGR424H1, GGR428H1, GGR429H1, GGR430H1,

GGR431H1, GGR432H1, GGR433H1, GGR434H1,
GGR437H1, GGR438H1, JGC439H1, GGR456H1,
GGR458H1, GGR460H1, GGR462H1, GGR472H1,
GGR473H1, GGR481H1, GGR482H1, GGR491Y1,
GGR492H1, GGR496H1, GGR497H1, GGR499H1,
JGE321H1, JGE331H1, JIG322H1, JIG440H1,
JUG320H1, JUG325H1, JGI216H1/ JGU216H1,
JGI346H1/ JGU346H1, JGI454H1/ JGU454H1

Group F (Optional Science Courses for Human Geography)

GGR201H1, GGR203H1, GGR205H1, GGR206H1,
GGR301H1, GGR305H1, GGR308H1, GGR310H1,
FOR310H1, GGR314H1, GGR315H1/ GGR337H1,
GGR347H1, GGR348H1, GGR388H1, GGR401H1,
GGR405H1, GGR406H1, GGR413H1, GGR414H1/
GGR415H1, GGR498H1

Focus in Planning (Major) - ASFOC1667A

The Planning Focus provides students with the opportunity to learn about how planning is a key component of the dynamic relations that exist between places, policy, power, and people. It focuses in on the conscious choices and decision made by various groups to shape the spatial organization of human activities. The Planning Focus will appeal to students who wish to develop an integrative understanding of the cultural, economic, political and social forces that shape the development and redevelopment of metropolitan and rural regions. Students are encouraged to explore the breadth of our courses that engage planning questions in relation to transportation, social segregation, health and housing, economic policy, environment change, and globalization.

Enrolment Requirements:

Enrolment in the Human Geography Major (ASMAJ1667) program is required.

Completion Requirements:

Core (required) Courses: 1.0 credit from GGR217H1 and JGI346H1/ JGU346H1

Planning Electives: 1.5 credits from GGR241H1, GGR259H1, JIG322H1, GGR338H1, GGR339H1, GGR343H1, GGR349H1, GGR354H1, GGR357H1, GGR359H1, GGR416H1, GGR424H1, GGR428H1, GGR433H1, GGR434H1, GGR456H1, GGR460H1, GGR493Y1 (0.5 credit can be used based on internship)

Note: At least 1.0 credit must be 300/400-level courses.

Focus in Urban Geography (Major) - ASFOC1667M

The Focus in Urban Geography provides students with the opportunity to emphasize urban geography as part of their Human Geography specialist or major. Urban geography focuses on the political, social, cultural and economic processes that shape city life, development and policy. This focus will appeal to students registered in the Human Geography specialist or major program who wish to develop an integrative understanding of the dynamics that shape the urban realm. Students are encouraged to explore the breadth of our course offerings in housing, historical, political and transportation.

Enrolment Requirements:

Enrolment in the Human Geography Major (ASMAJ1667) program is required.

Completion Requirements:

Required Urban Geography Courses: 1.0 credit from GGR124H1, GGR241H1, JGI216H1/ JGU216H1, GGR259H1

Urban Geography Electives: 1.5 credits from GGR241H1, GGR259H1, GGR336H1, GGR339H1, GGR349H1, GGR357H1, GGR359H1, GGR374H1, GGR382H1, GGR424H1, GGR458H1, GGR460H1, GGR482H1

Note: At least 1.0 credit must be 300/400-level courses.

Human Geography Minor (Arts Program) - ASMIN1667

The Human Geography programs provide the opportunity to learn about the relations between landscapes, places, people and nature, and the spatial organization of human activities. While students are encouraged to explore the breadth of the discipline, we also identify courses by theme for students who wish to develop expertise in one or two subfields (e.g., urban geography, cultural and historical geography). The Human Geography programs appeal to students who wish to develop an integrative understanding of the cultural, economic, political and social forces that shape how people use and experience the environments they live in. These programs offer training in quantitative and qualitative research methods, including GIS and Remote Sensing.

Note: Double minors in Geography may only overlap 1.0 credit. Students combining any of our Minor programs with a Major/Specialist Geography program will normally be allowed to overlap only 1.5 credits towards both programs.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year Geography Courses: Any 2 courses (1.0 credit) from JEG100H1, GGR101H1, GGR107H1, GGR112H1, GGR124H1, GGR172H1, GGR196H1, GGR197H1, GGR198H1, GGR199H1. 200/300-level GGR courses may also be used to meet this requirement. Contact the Undergraduate Administrator to update your program.

Applications: Any 6 courses (3.0 credits) from Group E, including at least 1.0 credit at the 300/400-level. One course (0.5 credit) can be from Group F. Up to 1.0 credit can be used from GGR493Y1, based on suitability of placement for this program, and approved by department.

Group E (Human Geography Courses):

GGR217H1, GGR221H1, GGR223H1, GGR225H1,
GGR240H1, GGR246H1, GGR251H1, GGR252H1,
GGR254H1, GGR259H1, GGR270H1, GGR271H1,
GGR272H1, GGR273H1, GGR274H1, GGR299Y1,
GGR320H1, GGR323H1, GGR324H1, GGR326H1,
GGR327H1, GGR328H1, GGR329H1, GGR332H1,
GGR334H1, GGR336H1, GGR338H1, GGR339H1,
GGR340H1, GGR341H1, GGR342H1, GGR343H1,
GGR344H1, GGR349H1, GGR354H1, GGR357H1,
GGR359H1, GGR360H1, GGR363H1, GGR372H1,
GGR373H1, GGR374H1, GGR375H1, GGR376H1,
GGR377H1, GGR382H1, GGR386H1, GGR387H1,
GGR389H1, GGR400H1, GGR416H1, GGR418H1,
GGR419H1, GGR421H1, GGR424H1, GGR428H1,
GGR429H1, GGR430H1, GGR431H1, GGR432H1,
GGR433H1, GGR434H1, GGR437H1, GGR438H1,
JGC439H1, GGR456H1, GGR458H1, GGR460H1,
GGR462H1, GGR472H1, GGR473H1, GGR481H1,
GGR482H1, GGR491Y1, GGR492H1, GGR496H1,
GGR497H1, GGR499H1, JGE321H1, JGE331H1,
JIG322H1, JIG440H1, JUG320H1, JUG325H1,
JGI216H1, JGU216H1, JGI346H1, JGU346H1,
JGI454H1, JGU454H1

Group F (Optional Science Courses for Human Geography):

GGR201H1, GGR203H1, GGR205H1, GGR206H1,
GGR301H1, GGR305H1, GGR308H1, GGR310H1,
FOR310H1, GGR314H1, GGR315H1, GGR337H1,
GGR347H1, GGR348H1, GGR388H1, GGR401H1,
GGR405H1, GGR406H1, GGR413H1, GGR414H1,
GGR415H1, GGR498H1

Environmental Geography Specialist (Arts Program) - ASSPE1252

A focus on the human-environment nexus is most explicit in these programs. Students learn about the social, spatial, and biophysical processes that shape society's relationship to nature, management of resources, and contemporary environmental change. These programs appeal to non-science students who seek an environmental program that allows them to learn more about the natural processes that interact with social factors in shaping environments. These programs offer training in quantitative and qualitative research methods, including GIS and Remote Sensing.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- 0.5 credit in GGR courses at the 100- or 200-level, with a minimum grade of 75%, or
- 1.0 credit in GGR courses at the 100- or 200-level, with a minimum grade of 70%

To ensure that students admitted to the program will be successful, applicants with a final grade or grade average lower than the minimum grades stated above will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program. Jointly-offered GGR courses will also be considered (e.g. JEG, JGI, JGE).

Completion Requirements:

First Year Geography Courses: Any 2 courses (1.0 credit) from GGR107H1 (recommended), JEG100H1, GGR101H1, GGR112H1, GGR124H1, GGR172H1, GGR196H1, GGR197H1, GGR198H1, GGR199H1. 200/300-level GGR courses may also be used to meet this requirement. Contact the Undergraduate Administrator to update your program.

Physical and Environmental Geography Courses: Any 2 courses (1.0 credit) from GGR201H1, GGR203H1, GGR205H1, GGR206H1, GGR305H1, GGR308H1, GGR314H1, GGR347H1, GGR348H1, ENV200H1, ENV234H1

Methods & Core Courses: All (2.5 credits) of GGR223H1, GGR270H1, GGR271H1, GGR272H1, JGE331H1

Regional Geography Courses: Any course (0.5 credit) from GGR240H1, GGR246H1, GGR254H1, GGR341H1, GGR342H1, GGR343H1, GGR344H1

Fourth Year Courses: Either GGR491Y1 or one of GGR416H1, GGR492H1, GGR497H1 and one additional 0.5 credit 400 level course from Group A or Group B (1.0 credit). Up to one 0.5 credit can be used from GGR493Y1, based on suitability of placement for this program, and approved by department.

Application: Any 8 courses (4.0 credits) from Group A; up to 1.5 credits can be from Group B; up to 1.0 credit can be from Group C. Up to 1.0 credit can be used from GGR493Y1, based on suitability of placement for this program, and approved by department.

Note: At least 4.0 credits must be 300/400-level courses. Of these, at least 1.0 credit must be at the 400-level (includes Fourth Year Course requirement).

Total credits: 10.0

Group A (Environmental Geography Courses):

GGR201H1, GGR203H1, GGR205H1, GGR206H1, GGR223H1, GGR272H1, GGR273H1, GGR274H1, GGR301H1, GGR305H1, GGR308H1, GGR310H1, GGR314H1, GGR323H1, GGR329H1, GGR332H1, GGR334H1, GGR315H1/GGR337H1, GGR338H1, GGR340H1, GGR341H1, GGR347H1, GGR348H1, GGR349H1, GGR372H1, GGR373H1, GGR386H1, GGR387H1, GGR388H1, GGR401H1, GGR405H1, GGR406H1, GGR413H1, GGR414H1/GGR415H1, GGR416H1, GGR418H1, GGR419H1, GGR434H1, GGR438H1, GGR481H1, GGR491Y1, GGR492H1, GGR497H1, GGR498H1, JGE321H1, JGE331H1, JIG322H1, JIG440H1, JUG320H1

Group B (School of the Environment Courses):

ENV200H1, ENV234H1, ENV307H1, ENV323H1, ENV333H1, ENV335H1, ENV350H1, ENV395Y0, ENV396Y0, ENV422H1

Group C:

Any other GGR, JGE, JIG, JUG courses at the 200/300/400-level not listed in Group A.

Environmental Geography Major (Arts Program) - ASMAJ1252

A focus on the human-environment nexus is most explicit in these programs. Students learn about the social, spatial, and biophysical processes that shape society's relationship to nature, management of resources, and

contemporary environmental change. These programs appeal to non-science students who seek an environmental program that allows them to learn more about the natural processes that interact with social factors in shaping environments. These programs offer training in quantitative and qualitative research methods, including GIS and Remote Sensing.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- 0.5 credit in GGR courses at the 100- or 200-level, with a minimum grade of 67%, or
- 1.0 credit in GGR courses at the 100- or 200-level, with a minimum grade of 63%

To ensure that students admitted to the program will be successful, applicants with a final grade or grade average lower than the minimum grades stated above will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program. Jointly-offered GGR courses will also be considered (e.g. JEG, JGI, JGE).

Completion Requirements:

First Year Geography Courses: Any 2 courses (1.0 credit) from GGR107H1 (recommended), JEG100H1, GGR101H1, GGR112H1, GGR124H1, GGR172H1, GGR196H1, GGR197H1, GGR198H1, GGR199H1. 200/300-level GGR courses may also be used to meet this requirement. Contact the Undergraduate Administrator to update your program.

Physical and Environmental Geography Courses: Any 2 courses (1.0 credit) from GGR201H1, GGR203H1, GGR205H1, GGR206H1, GGR305H1, GGR308H1, GGR314H1, GGR347H1, GGR348H1, EEB240H1, ENV200H1

Methods & Core Courses: All (1.5 credits) of GGR223H1, GGR270H1, GGR271H1

Regional Geography Courses: Any course (0.5 credit) from GGR240H1, GGR246H1, GGR254H1, GGR341H1, GGR342H1, GGR343H1, GGR344H1

Fourth Year Course: Any course (0.5 credit) at the 400-level from Group A.

Applications: Any 5 courses (2.5 credits) from Group A; up to 1.0 credit can be from Group B; up to 0.5 credit can be from Group C.

Note: At least 2.0 credits must be 300/400-level courses. Of these, at least one 0.5 credit must be at the 400-level (includes Fourth Year Course requirement).

Total credits: 7.0

Group A (Environmental Geography Courses)

GGR201H1, GGR203H1, GGR205H1, GGR206H1,
GGR223H1, GGR272H1, GGR273H1, GGR274H1,
GGR301H1, GGR305H1, GGR308H1, GGR310H1,
GGR314H1, GGR323H1, GGR329H1, GGR332H1,
GGR334H1, GGR315H1/GGR337H1, GGR338H1,
GGR340H1, GGR341H1, GGR347H1, GGR348H1,
GGR349H1, GGR372H1, GGR373H1, GGR386H1,
GGR387H1, GGR388H1, GGR401H1, GGR405H1,
GGR406H1, GGR413H1, GGR414H1/GGR415H1,
GGR416H1, GGR418H1, GGR419H1, GGR434H1,
GGR438H1, GGR481H1, GGR491Y1, GGR492H1,
GGR497H1, GGR498H1, JGE321H1, JGE331H1,
JIG322H1, JIG440H1, JUG320H1

Group B (EEB and ENV Courses)

EEB240H1, ENV200H1, ENV307H1, ENV323H1,
ENV333H1, ENV335H1, ENV350H1, ENV395Y0,
ENV396Y0, ENV422H1

Group C

Any other GGR, JGE, JIG, JUG courses at the 200/300/400-level not listed in Group A.

Environmental Geography Minor (Arts Program) - ASMIN1252

A focus on the human-environment nexus is most explicit in these programs. Students learn about the social, spatial, and biophysical processes that shape society's relationship to nature, management of resources, and contemporary environmental change. These programs appeal to non-science students who seek an environmental program that allows them to learn more about the natural processes that interact with social factors in shaping environments. These programs offer training in quantitative and qualitative research methods, including GIS and Remote Sensing.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year Geography Courses: Any course (0.5 credit) from GGR107H1 (recommended), JEG100H1, GGR101H1, GGR112H1, GGR124H1, GGR172H1, GGR196H1, GGR197H1, GGR198H1, GGR199H1. 200/300-level GGR courses may also be used to meet this requirement. Contact the Undergraduate Administrator to update your program.

Core Course: All (0.5 credit) of GGR223H1

Physical and Environmental Geography Course: Any course (0.5 credit) from GGR201H1, GGR203H1, GGR205H1, GGR206H1, GGR305H1, GGR308H1, GGR314H1, GGR347H1, GGR348H1, ENV200H1, ENV234H1

Applications: Any 5 courses (2.5 credits) from Group A; up to 1.0 credit can be from Group B. Up to a 0.5 credit can be used from GGR493Y1, based on suitability of placement for this program, and approved by department.

Note: At least 1.0 credit must be 300/400-level courses.

Group A (Environmental Geography Courses):

GGR201H1, GGR203H1, GGR205H1, GGR206H1,
GGR223H1, GGR270H1, GGR271H1, GGR272H1,
GGR273H1, GGR274H1, GGR301H1, GGR305H1,
GGR308H1, GGR310H1, GGR314H1, GGR323H1,
GGR329H1, GGR332H1, GGR334H1, GGR315H1/
GGR337H1, GGR338H1, GGR340H1, GGR341H1,
GGR347H1, GGR348H1, GGR349H1, GGR372H1,
GGR373H1, GGR386H1, GGR387H1, GGR388H1,
GGR401H1, GGR405H1, GGR406H1, GGR413H1,
GGR414H1/GGR415H1, GGR416H1, GGR418H1,
GGR419H1, GGR434H1, GGR438H1, GGR481H1,
GGR491Y1, GGR492H1, GGR497H1, GGR498H1,
JGE321H1, JGE331H1, JIG322H1, JIG440H1,
JUG320H1

Group B (School of the Environment Courses):

ENV200H1, ENV234H1, ENV307H1, ENV323H1,
ENV333H1, ENV335H1, ENV350H1, ENV395Y0,
ENV396Y0, ENV422H1

Physical and Environmental Geography Specialist (Science Program) - ASSPE2030

Physical and Environmental Geography offers science-based programs for students interested in an integrative approach to understanding the earth's biotic and abiotic systems, including their spatial dynamics and the ways

they are altered by human action. The programs provide a foundation in the subfields of climatology, biogeography, hydrology, and geomorphology. Students gain practical experience in lab and field settings. Technical skills taught also include data analysis, geospatial analytical tools, including GIS and Remote Sensing.

Enrolment Requirements:

Enrolment in the Physical and Environmental Geography Specialist will be administratively suspended as of January 31, 2024 and students will no longer be able to enrol in the program. Students presently enrolled in the Specialist will be able to complete the program requirements as described below. Students who are not enrolled in this program but are interested in "Physical and Environmental Geography" programs are encouraged to consider the Environmental Geography and/or Human Geography Programs in the Department of Geography and Planning and are strongly recommended to consult with the Department of Geography and Planning for advising.

Completion Requirements:

Introductory courses: Any 6 half courses or the equivalent (3.0 credits) from JEG100H1, BIO120H1/ BIO130H1, CHM135H1, CHM136H1, PHY131H1/ PHY151H1, PHY132H1/ PHY152H1, MAT135H1, at least two of which must be Math or Physics half courses.

Core Courses: Any 4 courses (2.0 credits) from GGR201H1, GGR203H1, GGR205H1, GGR206H1, up to one half course from Group H.

Regional Geography Courses: Any course (0.5 credit) from GGR240H1, GGR246H1, GGR254H1, GGR308H1, GGR341H1, GGR342H1, GGR343H1, GGR344H1

Methods Courses: All (2.0 credits) of GGR270H1, GGR272H1, GGR337H1, GGR390H1

Applications: Any 7 courses (3.5 credits) from the Following:

- Hydrology/GIS/Remote Sensing: GGR273H1, GGR274H1, GGR315H1/ GGR337H1, GGR373H1, GGR375H1, GGR386H1, GGR413H1, GGR414H1/ GGR415H1, GGR462H1, GGR472H1
- Climatology/Energy/Resources: GGR314H1, GGR334H1, GGR347H1, GGR348H1, GGR416H1
- Geomorphology: GGR301H1, GGR406H1, ESS241H1, ESS331H1
- Biogeography: GGR305H1, GGR308H1, ESS361H1, ESS363H1, ESS461H1, ESS462H1
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No more than one from GGR273H1, GGR373H1. Up to 1.0 credit can be used from GGR493Y1, based on suitability of placement for this program, and approved by department. Any GGR course from the list for Core Courses and Fourth Year Courses not already used. Up to 1.5 credits from Group I. No more than one of GGR273H1, GGR373H1.

Fourth Year Courses: Any 2 courses (1.0 credit) from GGR401H1, GGR406H1, GGR413H1, GGR415H1, GGR491Y1, GGR498H1, and 400-level courses in Group I. The total number of half courses from Group I (including 300-level courses) must not exceed 3 (1.5 credits). Up to one 0.5 credit can be used from GGR493Y1, based on suitability of placement for this program, and approved by department.

Total credits: 12.0

Group H:

CHM217H1, CHM310H1, ESS224H1, ESS261H1

Group I:

EEB319H1, EEB321H1, EEB324H1, EEB328H1, EEB428H1, ENV346H1, ESS262H1, ESS311H1, ESS361H1, ESS363H1, ESS461H1, ESS464H1, FOR301H1, FOR305H1, FOR306H1, FOR417H1, JEE337H1, PHY392H1, PHY408H1

Physical and Environmental Geography Major (Science Program) - ASMAJ2030

Physical and Environmental Geography offers science-based programs for students interested in an integrative approach to understanding the earth's biotic and abiotic systems, including their spatial dynamics and the ways they are altered by human action. The programs provide a foundation in the subfields of climatology, biogeography, hydrology, and geomorphology. Students gain practical experience in lab and field settings. Technical skills taught also include data analysis, geospatial analytical tools, including GIS and Remote Sensing.

Enrolment Requirements:

Enrolment in the Physical and Environmental Geography Major will be administratively suspended as of January 31, 2024 and students will no longer be able to enrol in the program. Students presently enrolled in the Major will be able to complete the program requirements as described below. Students who are not enrolled in this program but are interested in "Physical and Environmental Geography" programs are encouraged to consider the Environmental Geography and/or Human Geography Programs in the Department of Geography and Planning and are strongly recommended to consult

with the Department of Geography and Planning for advising.

Completion Requirements:

Introductory Courses: Any 4 half courses or the equivalent (2.0 credits) from JEG100H1, BIO120H1/ BIO130H1, CHM135H1, CHM136H1, PHY131H1, PHY132H1, MAT135H1

Core Courses: Any 3 courses (1.5 credits) from GGR201H1, GGR203H1, GGR205H1, GGR206H1

Regional Geography Course: Any course (0.5 credit) from GGR240H1, GGR246H1, GGR254H1, GGR308H1, GGR341H1, GGR342H1, GGR343H1, GGR344H1

Methods Courses: All (1.5 credits) of GGR270H1, GGR272H1, GGR390H1

Applications: Any 4 courses (2.0 credits) from:

- Hydrology/GIS/Remote Sensing: GGR273H1, GGR274H1, GGR315H1/ GGR337H1, GGR373H1, GGR375H1, GGR386H1, GGR413H1, GGR414H1/ GGR415H1, GGR462H1, GGR472H1
- Climatology/Energy/Resources: GGR314H1, GGR334H1, GGR347H1, GGR348H1, GGR416H1
- Geomorphology: GGR301H1, GGR406H1, ESS241H1, ESS331H1
- Biogeography: GGR305H1, GGR308H1, ESS361H1, ESS363H1, ESS461H1, ESS462H1

Up to 1.0 credit can be used from GGR493Y1, based on suitability of placement for this program, and approved by department. Any GGR course from the list for Core Courses and Fourth Year Courses not already used. Any course (0.5 credit) from Group I. No more than one from GGR273H1, GGR373H1.

Fourth Year Course: Any course (0.5 credit) from GGR401H1, GGR406H1, GGR413H1, GGR414H1/ GGR415H1, GGR491Y1, GGR498H1

Total credits: 8.0

Group I:

EEB319H1, EEB321H1, EEB324H1, EEB328H1, EEB428H1, ENV346H1, ESS262H1, ESS311H1, ESS361H1, ESS363H1, ESS461H1, ESS464H1, FOR301H1, FOR305H1, FOR306H1, FOR417H1, JEE337H1, PHY392H1, PHY408H1

Physical and Environmental Geography Minor (Science Program) - ASMIN2030

Physical and Environmental Geography offers science-based programs for students interested in an integrative approach to understanding the earth's biotic and abiotic systems, including their spatial dynamics and the ways they are altered by human action. The programs provide a foundation in the subfields of climatology, biogeography, hydrology, and geomorphology. Students gain practical experience in lab and field settings. Technical skills taught also include data analysis, geospatial analytical tools, including GIS and Remote Sensing.

Enrolment Requirements:

Enrolment in the Physical and Environmental Geography Minor will be administratively suspended as of January 31, 2024 and students will no longer be able to enrol in the program. Students presently enrolled in the Minor will be able to complete the program requirements as described below. Students who are not enrolled in this program but are interested in "Physical and Environmental Geography" programs are encouraged to consider the Environmental Geography and/or Human Geography Programs in the Department of Geography and Planning and are strongly recommended to consult with the Department of Geography and Planning for advising.

Completion Requirements:

First Year Geography Courses: Any 2 courses (1.0 credit) from JEG100H1 (recommended), GGR101H1, GGR107H1, GGR112H1, GGR124H1, GGR196H1, GGR197H1, GGR198H1, GGR199H1

Core Courses: Any 2 courses (1.0 credit) from GGR201H1, GGR203H1, GGR205H1, GGR206H1

Methods Courses: Any 2 courses (1.0 credit) from GGR270H1, GGR272H1, GGR390H1

Applications: Any 2 courses (1.0 credit) from:

- Hydrology/GIS/Remote Sensing: GGR206H1, GGR273H1, GGR274H1, GGR315H1/ GGR337H1, GGR373H1, GGR375H1, GGR386H1, GGR413H1, GGR414H1/ GGR415H1, GGR462H1
- Climatology/Energy: GGR203H1, GGR314H1, GGR347H1, GGR348H1
- Geomorphology: GGR201H1, GGR301H1, GGR406H1
- Biogeography: GGR205H1, GGR305H1, GGR308H1, ESS361H1, ESS363H1, ESS461H1

ESS462H1

No more than one (0.5) of GGR273H1, GGR274H1, GGR373H1, GGR375H1, GGR386H1. At least one Applications course (0.5 credit) must be 300-level or higher. Up to one 0.5 credit can be used from GGR493Y1, based on suitability of placement for this program, and approved by department.

Total credits: 4.0

Geographic Information Systems Minor (Arts Program) - ASMIN0305

The GIS program covers the on theoretical, technical and applied foundations for geographic information systems. Students learn methods for spatial data production, analysis and presentation using computer cartography, spatial analysis, remote sensing, and geovisualization. Problem solving and project design are emphasized in upper level courses, as students apply techniques to answer specific geographic questions. The GIS program is structured to provide a stand-alone minor for students in Geography and other disciplines seeking complementary skills in spatial analysis (e.g., field biology, archaeology).

Note: Students combining this program with a Specialist/Major sponsored by the Department of Geography will normally be allowed to count only 1.5 (of the 4.0) credits towards both programs.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year Geography Courses: Any 2 courses (1.0 credit) from JEG100H1, GGR101H1, GGR107H1, GGR112H1, GGR124H1, GGR172H1, GGR196H1, GGR197H1, GGR198H1, GGR199H1. 200/300-level GGR courses may also be used to meet this requirement. Contact the Undergraduate Administrator to update your program.

Methods & Core Courses: All (2.0 credits) of GGR270H1, GGR272H1, GGR273H1, GGR373H1

Applications: Any 2 courses (1.0 credit) from GGR225H1, GGR274H1, GGR315H1, GGR337H1, GGR372H1, GGR375H1, GGR376H1, GGR377H1, GGR386H1, GGR413H1, GGR414H1, GGR415H1, GGR462H1, GGR472H1, GGR473H1. Up to 0.5 credit can be used

from GGR493Y1, based on suitability of placement for this program, and approval by department. Up to 0.5 credit from GGR491Y1, GGR492H1, GGR497H1, GGR498H1, and GGR499H1 based on suitability of research topic for this program, and approval by department.

Note: At least 1.0 credit must be 300/400-level courses

Environment and Energy Minor (Science Program) - ASMIN1552

Environment and Energy (Science Program) Joint Program with the School of the Environment

Jointly sponsored by the School of the Environment and the Department of Geography, this interdisciplinary program addresses the scientific, technological, environmental and policy aspects of energy use and supply, with a focus on the reduction of environmental impacts.

Note that the four full course equivalents that constitute the Minor Program are those listed below under Higher Years. For more information, please email the School of the Environment's Undergraduate Student Advisor, David Powell, at ug.office.env@utoronto.ca.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year Courses: 1.0 credit from (MAT135H1 and MAT136H1)/ MAT137Y1, and 1.0 credit from CHM135H1, CHM136H1, CHM151Y1, PHY131H1, PHY132H1, PHY151H1, PHY152H1

All of: ENV221H1, ENV222H1/ GGR223H1 (1.0 credit)

All of: ENV346H1, ENV350H1, ENV450H1 (1.5 credits)

Any two of: GGR332H1/ ENV462H1, GGR310H1/ FOR310H1, GGR314H1, GGR347H1, GGR348H1 (1.0 credit)

Any one of: CHM210H1, CHM310H1, CHM415H1, ENV237H1, ENV238H1, FOR310H1*/ GGR310H1*, FOR410H1, GGR203H1, GGR314H1*, GGR347H1*, GGR348H1*, HPS313H1, PHY231H1, PHY250H1 (* if not taken for the requirement immediately above) (0.5 credit)

Regarding Geography and Planning Courses

Prerequisites

Recommended Preparation: The course will be taught in a manner that assumes students have achieved the level of

Geography and Planning Courses

JEG100H1 - Introduction to Physical Geography and Earth Science

Hours: 24L/12P

This introduction to Physical Geography and Earth Sciences examines the atmosphere, lithosphere, hydrosphere, cryosphere and biosphere, emphasizing processes, flows of energy and materials, and the interconnectedness of these Earth systems. Specific topics include weather and climate, earth materials, geological and geomorphic processes involved in the genesis of landforms, river systems, glaciers, soils, and biomes.

Exclusion: GGR100H1, ESS102H1, EESA06H3

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR101H1 - Histories of Environmental Change

Hours: 24L

This course will investigate geological, biological and archaeological evidence of environmental change. We will examine the processes that have driven and will drive environmental change and how past societies have shaped and responded to these changes. The emphasis is on the current interglacial period, or Holocene, and how shifts in population and technologies have affected human-environment interactions. As language of the Holocene gives way, for many, to that the Anthropocene, the implications of environmental change for present and future human societies will be our concluding concern.

Breadth Requirements: Living Things and Their Environment (4)

study (e.g., third year standing) and completed courses listed (or equivalent background).

Prerequisites: These are strictly monitored requirements. In some cases, prerequisites may be waived if equivalent background exists. Please consult the Associate Chair, Undergraduate or the course instructor.

GGR107H1 - Environment, Food and People

Hours: 24L/12T

Examines the relations between food, nature, and society. Food is fundamental to human existence, and central to most cultures; it also has significant and widespread effects on the physical and social environments. Food is used as a lens to explore human-environment interactions locally and globally. Serves as an introduction to environmental and human geography.

Breadth Requirements: Society and its Institutions (3)

GGR112H1 - Geographies of Globalization, Development and Inequality

Hours: 24L/8T

Economic growth, social change and environmental transformation are taking shape in an increasingly interconnected global context. This course introduces and examines critical geographic approaches to international development, economic globalization, poverty, and inequality. It pays particular attention to the roles of rural-urban and international migration in shaping specific landscapes.

Breadth Requirements: Society and its Institutions (3)

GGR124H1 - Cities and Urban Life

Hours: 24L/6T

Offers an introduction to North American cities and urbanization in a global context. It explores social, cultural, political and economic forces, processes, and events that shape contemporary urbanism. The course adopts the lens of 'fixity' and 'flow' to examine how the movement of people, ideas, goods, and capital, as well as their

containment in the infrastructure and space of the city, give rise to particular urban forms.

Exclusion: GGR207H5

Breadth Requirements: Society and its Institutions (3)

GGR172H1 - Digital Earth

Hours: 24L/12T

This course examines the changing role of geographic information and maps in society. It considers how spatial information is produced, organized, and used in different historical, cultural, and political contexts. Topics examined include: the effects of the shift from print to digital mapping; implications of mobile spatial technologies and the geoweb; open source and open access; production and control of spatial data and information; and alternative cartographies. Introduces concepts of Geospatial Literacy, Critical Mapping and Critical GIS.

Exclusion: GGR225H1

Breadth Requirements: Society and its Institutions (3)

GGR196H1 - The Yard: Micro-Geographies of Household Outdoor Spaces

Hours: 24S

A “yard” is the area of land immediately adjacent to a building, often a residence. By examining micro-geographies (that is, detailed empirical studies of a small, specific locale) of these ubiquitous, everyday spaces, the course explores how yards are intimately connected with broader ecologies, cultures, and social relations, all of which can be explored using geographic theories and techniques.

The course also serves as an introduction to other subjects that are relevant to navigating post-secondary life, such as: critical reading; conducting university-level research; presenting and communicating ideas in the classroom; teamwork, and how to benefit from it; and developing social networks.

Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

GGR197H1 - Nature, Conservation and Justice

Hours: 24S

Every day we read about climate change, species extinction, environmental degradation and the need for nature conservation. It is increasingly becoming apparent that the environmental problems that we face today arise from a deeper crisis relating to human ways of viewing and connecting to nature. This course asks how we can rework human ways of relating to nature, while querying the idea of “nature” and questioning the dominant approaches to nature conservation. It asks how can concerns for nature and for other species be balanced with that for human livelihoods and well-being? How can inequalities with regards to the distribution of environmental goods and bads be reduced? How are citizens and communities in the different parts of the world struggling against environmental injustice and to protect their local environments? How do these place-based movement demand justice and what visions do they articulate for a more just and sustainable world? How do indigenous worldviews offer conceptual resources for rethinking nature and our ways of relating to nature? The course will explore these questions using lectures, class discussion, videos and student presentations. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

GGR198H1 - Mobility and Borders

Hours: 24S

This course examines the political geographies of transnational migration. It asks how spaces of migration and mobility are political, and how migration politics are tied to inequalities wrought through intersecting histories of race, class, and gender. It seeks to extend our understandings of migrants, borders, and mobility, and it explores the processes through which mobility is produced, delimited and structured. We will consider the transnational politics of migration, the militarization of border zones, and the political spaces of migrant displacement, dispossession, and dislocation. The seminar readings focus on classical paradigms as well as emerging approaches in immigration studies. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

GGR199H1 - Global Racial Capitalism in the 21st Century

Hours: 24S

This course uses the tools of political economy, decolonial and anti-colonial theory, and critical approaches to the study of racism to explore how the construction of racial categories continues to be integral to the working of capitalist systems. We will explore the reasons why capitalism was never meant to work for everyone by examining how and why racial categories have continued to matter since capitalism's earliest formations. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

GGR201H1 - Geomorphology

Hours: 24L/8P

This course introduces the principles of geomorphology, including the landforms and processes associated with water, wind, waves, and ice, as well as the human impacts on earth surface processes. Laboratory sessions occur irregularly during the semester to introduce assignments and provide support. A local field trip may be offered (transportation and entrance cost: approximately \$25).

Exclusion: GGR201H5

Recommended Preparation: JEG100H1

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR203H1 - Introduction to Climatology

Hours: 36L

Introduction to the large scale processes responsible for determining global and regional climate and atmospheric circulation patterns, as well as the small scale processes responsible for determining the microclimates of specific environments.

Prerequisite: Physics SPH3U

Recommended Preparation: JEG100H1; MAT133Y1, MAT135H1, MAT136H1, MAT137Y1; PHY131H1, PHY132H1, PHY151H1, PHY152H1

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR205H1 - Introduction to Soil Science

Hours: 24L/4P

This course introduces the fundamentals of soil science, including the chemical, physical, and biological properties of soils as well as soil formation and development, the

classification of soils, and the applications of soil science. A field trip may be offered (transportation cost: approximately \$25).

Recommended Preparation: CHM136H1, CHM135H1, JEG100H1

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR206H1 - Introduction to Hydrology

Hours: 30L/4P

Introduction to the hydrologic cycle with emphasis on the physical processes, including precipitation, interception, evaporation, runoff, ground water and soil water. Basic hydrological models will be practiced. Potential field trip, cost: approximately \$21.

Recommended Preparation: JEG100H1; MAT135H1

Breadth Requirements: The Physical and Mathematical Universes (5)

JGU216H1 - Globalization and Urban Change

Previous Course Number: JGI216H1

Hours: 24L

Focusing on the impacts that global flows of ideas, culture, people, goods, and capital have on cities throughout the globe, this course explores some of the factors that differentiate the experiences of globalization and urban change in cities at different moments in history and in various geographic locations.

Exclusion: JGI216H1

Recommended Preparation: GGR124H1

Breadth Requirements: Society and its Institutions (3)

GGR217H1 - Urban Landscapes and Planning

Hours: 24L/4T

Considers the role of planning in shaping the urban landscape through historical and contemporary examples that illustrate the interplay of modernist and post-modernist approaches to city building. Traces the origins, competing rationalities and lingering effects of planning in the production of urban space. Broaches possibilities for engaging planning critically to address challenges of social and environmental justice in cities today.

Exclusion: [GGR361H1](#)

Breadth Requirements: Society and its Institutions (3)

GGR221H1 - New Economic Spaces

Hours: 24L/4T

Provides an introduction to economic geography and economic geography theory from the 1970s on, illustrating the different ways that geographers have conceptualized the restructuring of resource industries, manufacturing and services. The crisis of Fordism and the rise of new production models will be given particular attention, along with the reorganization of finance, the rise of cultural industries and the globalization of commodity chains. New regimes of governance of the economy will also be considered.

Breadth Requirements: Society and its Institutions (3)

GGR223H1 - Environment, Society and Resources

Previous Course Number: GGR222H1

Hours: 24L/6T

Focuses on society-environment relations and different approaches to resource governance and management. This includes exploration of the spatial, social, and political economic origins and implications of humans' changing relations to nature. Drawing on debates from environmental governance and political ecology literatures, the course also investigates the ways that different actors and institutions have framed and sought solutions to environmental and resource challenges.

Breadth Requirements: Society and its Institutions (3)

GGR240H1 - Geographies of Colonialism in North America

Hours: 24L/5T

This course considers the creation and consolidation of settler colonies in the region known to many as North America. With an eye to the colonial present, the course focuses on the period from the 15th century to the early 20th century. Cultural texts and place-specific cases are used to ground themes and processes that also bear on the wider field of historical geography, including narratives of discovery and possession; ecological imperialism and environmental transformation; the (re)settlement of land and colonial government; enslavement and industrialization; frontiers, borders, and resource extraction; and some of the Indigenous geographies that

preceded, were transformed by and transformed, and exceeded the reach of colonial power. Potential field trip.

Breadth Requirements: Society and its Institutions (3)

GGR246H1 - Geography of Canada

Hours: 24L

Social and economic differences have been, and continue to be, a prominent feature of Canada's geography. In this course these differences are examined at a regional and local scale. The course adopts a thematic approach and considers issues such as historical development, urbanization, industrialization, immigration and population change, Canada's cultural mosaic and native issues. Emphasis will be placed on the evolution of social and economic policies and Canada's incorporation into a global economy.

Exclusion: [GGR202H5](#)

Recommended Preparation: [GGR107H1](#), [GGR124H1](#)

Breadth Requirements: Society and its Institutions (3)

GGR251H1 - Geography of Innovation

Hours: 24L

Explores how new technologies and industries are generated and sustained, or failed to be. Focuses on the dynamics of leading technological sectors such as electronics, automobiles and biotechnology in their geographical and historical contexts. We critically scrutinise the iconic Silicon Valley along with other major innovative regions/nations, and investigate the key role of universities and finance in driving innovation and entrepreneurship.

Exclusion: [GGR300H1](#) (2014-15)

Breadth Requirements: Society and its Institutions (3)

GGR252H1 - Marketing Geography

Hours: 24L/4T

Geography matters in the success of both public and private sector organizations. Using mostly retail examples contemporary location problems are addressed. The geographies of demand and supply are analyzed and trade area and site selection techniques are applied. The relevance of the planning context and utility of geovisualization techniques such as GIS are also briefly considered.

Exclusion: GGR252H5

Breadth Requirements: Society and its Institutions (3)

GGR254H1 - Geography USA

Hours: 24L

After a short historical overview of the making of America, this course focuses on contemporary issues in American society, economy, politics, race, regional distinctions and disparities, urban development.

Breadth Requirements: Society and its Institutions (3)

GGR259H1 - Urban Growth and Decline

Hours: 24L

The growth and decline of cities have been and continue to be preoccupations of scholars and practitioners alike. This course is an introduction to the causes and consequences of urban growth and decline at the neighbourhood, municipal, and regional levels. Special attention will be paid to North American cities, but others outside of that sphere will be discussed as well. Concepts and topics will include a consideration of the following: rural to urban migration; industrialization and deindustrialization; urban renewal; suburbanization; austerity and neoliberalism; racial avoidance and discrimination; gentrification; and capital switching and uneven development.

Breadth Requirements: Society and its Institutions (3)

GGR270H1 - Introductory Analytical Methods

Hours: 24L/12T

Theory and practical application of elementary quantitative techniques in geography emphasizing descriptive, inferential and spatial statistical analysis, probability, and sampling.

Exclusion: ECO220Y1/ ECO227Y1/ EEB225H1/ GGR270Y1/ LIN305H1/ POL232H1/ PSY201H1/ SOC202H1/ STA220H1/ STA248H1/ STA261H1

Recommended Preparation: 0.5 credit in Geography

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR271H1 - Social Research Methods

Hours: 24L

Practical course on field methods designed to enable students to carry out their own research projects. Behavioural observation, interviewing, questionnaire design, sampling theory, content analysis of written and graphic material, data coding and focus groups.

Exclusion: SOC200H1/ SOC204H1/ CRI350H1/ ENV223H1

Breadth Requirements: Society and its Institutions (3)

GGR272H1 - Geographic Information and Mapping I

Hours: 24L/24P

Introduction to digital mapping and spatial analysis using geographic information systems (GIS). Students learn how to use GIS software to find, edit, analyze and map geographic data to create their own maps, analyze geographic problems and use techniques that can be applied to a variety of subject areas.

Exclusion: GGRB30H3, GGR278H5

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR273H1 - Geographic Information and Mapping II

Hours: 24L/24P

Builds on GGR272H1 by providing students with practical spatial analysis methods and the underlying theory needed to understand how to approach various geographic problems using geographic information system (GIS) software and a variety of data types and sources.

Prerequisite: GGR272H1

Exclusion: GGRB32H3

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR274H1 - Introductory Computation and Data Science for the Social Sciences

Hours: 24L/12T

Social scientists are increasingly working with big and complex datasets that contain spatial, group-level, and individual-level dimensions to answer questions about society. In this course, students will develop introductory programming knowledge and data acumen in order to create and run computer programs to explore where, when, and why social processes occur, drawing on theories from geography, linguistics, sociology, anthropology, economics, political science, and psychology. Instruction will focus on applying current data analysis libraries, communicating and translating data science methods to both researchers and the public, distinguishing causation from correlation and coincidence, and negotiating tradeoffs between different computational and statistical approaches.

Exclusion: CSC111H1, CSC148H1, STA130H1, STA238H1, STA248H1, STA261H1, EEB125H1

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

GGR301H1 - Fluvial Geomorphology

Hours: 24L/4P

Elements of drainage basin morphology and hydrology, classification of rivers, stream patterns and hydraulic geometry. Elements of open channel flow, sediment transport and the paleohydrology of river systems. River channel adjustments to environmental change, human impact and the management/design of river habitats. Exercises include experimentation in a laboratory flume. A field trip may be offered (at no cost). **Course usually offered every other year.**

Prerequisite: GGR201H1. Students who do not meet the prerequisite are encouraged to contact the instructor.

Recommended Preparation: 10.0 credits including JEG100H1/ GGR100H1 and ECO220Y1/ ECO227Y1/ EEB225H1/ GGR270H1/ GGR270Y1/ LIN305H1/ POL222H1/ POL242Y1/ PSY201H1/ SOC202H1/ STA220H1/ STA248H1/ STA250H1/ STA261H1

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR305H1 - Biogeography

Hours: 24L

Biogeography aims to identify and explain patterns of plant and animal distributions through space and time. This course considers topics including ecological and evolutionary dynamics, dispersal, migration, plate tectonics, speciation, extinction, paleoenvironments, and island biogeography. We will examine terrestrial and marine biomes, the meaning of biodiversity, conservation challenges, and recent biogeographic changes associated with human activities.

Prerequisite: 8.0 credits

Exclusion: GGR305H5

Recommended Preparation: JEG100H1 or (BIO120H1, BIO130H1)

Breadth Requirements: Living Things and Their Environment (4)

GGR308H1 - Canadian Arctic Environments

Hours: 24L

This course explores the unique physical geography of Canada's Arctic regions by covering topics on climate, the cryosphere, hydrology, geomorphology, and ecosystems. Throughout the course, we will consider the impacts of climate change in communities, landscapes, and ecosystems in Arctic regions.

Prerequisite: 8.0 credits

Recommended Preparation: JEG100H1

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR314H1 - Global Warming

Hours: 30L/6T

A comprehensive examination of the greenhouse warming problem, beginning with economic, carbon cycle, and climate model projections; impacts on and adaptive responses of agriculture, forests, fisheries, and water resources; options and policies to reduce greenhouse gas emissions.

Exclusion: GGR377H5

Recommended Preparation: Completion of a secondary/high school physics course will be beneficial. 8.0 credits including 1.0 credit from JEG100H1; MAT133Y1, MAT135H1, MAT136H1, MAT137Y1; PHY131H1, PHY132H1, PHY151H1, PHY152H1

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR315H1 - Environmental Remote Sensing

Previous Course Number: GGR337H1

Hours: 24L/24P

Principles of optical, active and passive microwave remote sensing; satellite orbit and sensor characteristics; image processing and analysis techniques and software; and environmental remote sensing applications.

Exclusion: GGR337H1, GGR337H5

Recommended Preparation: 8.0 credits, JEG100H1/
GGR100H1, GGR272H1

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR320H1 - Geographies of Transnationalism, Migration, and Gender

Hours: 24L

This course examines recent changes in global migration processes. Specifically, the course addresses the transnationalization and feminization of migrant populations and various segments of the global labor force. The coursework focuses on analyzing classical paradigms in migration studies, as well as emerging theoretical approaches to gender and migration. In addition, it traces the shifting empirical trends in gendered employment and mobility patterns. It uses in-depth case study material to query the frameworks employed in migration studies and to understand the grounded implications of gendered migration. It pays particular attention to the interventions made by feminist geographers in debates about work, migration, place, and space.

Recommended Preparation: 8.0 credits

Breadth Requirements: Society and its Institutions (3)

JUG320H1 - The Canadian Wilderness

Hours: 24L

The idea of wilderness permeates narratives of Canadian national identity, while policy-makers seek to manage and contain natural areas. This course compares and contrasts historical and contemporary wilderness narratives in literature, painting and film with policies in

areas such as conservation, urban planning, land claims and tourism.

Recommended Preparation: 8.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

JGE321H1 - Multicultural Perspectives on Environmental Management

Hours: 24L

Diverse approaches to environmental issues in a variety of multicultural settings are introduced, compared and analyzed, using case studies. Perspectives on environmental management will be discussed as they emerge from contexts such as Latin America, Asia, or Africa.

Prerequisite: ENV221H1/ ENV222H1/ GGR222H1/
GGR223H1

Exclusion: ENV321Y1

Recommended Preparation: 8.0 credits

Breadth Requirements: Society and its Institutions (3)

JIG322H1 - Indigenous Worlds, Worldviews and the Environment

Hours: 24L

Explores the diverse ways of understanding and responding to the world that emerge from indigenous cultures around the world. Examines how indigenous ways of being and relating to their natural environment can help us understand and address the current environmental crisis. Using examples of indigenous activism from Canada and around the world, examines how colonial histories shape dispossession and marginalization and inform visions for the future. Topics include traditional ecological knowledge, place-based social movements, environmental concerns of indigenous peoples, bio-cultural restoration and decolonization of nature-human relations.

Prerequisite: 8.0 credits including one of INS200H1,
INS201Y1, INS250H1, GGR107H1, GGR124H1,
GGR240H1, GGR246H1, GGR254H1

Exclusion: JAG321H1, GGR321H1

Breadth Requirements: Society and its Institutions (3)

GGR323H1 - Commons, Commoning and Nature

Previous Course Number: GGR387H1

Hours: 24L

This course examines the role of commons and commoning practices in rethinking how we share natural resources, nurture life-in-common and build more meaningful worlds. Topics covered include: the political and economic history of the commons and their erasure; social and environmental movements; geographies of commons governance; urban commons; more-than-human commons; and post-capitalist alternatives to address ecosystem emergencies. The course draws from Institutional and complexity theory; feminist decolonial theory; Indigenous philosophy; Black feminist thought; new materialism and posthumanism to understand the challenges and possibilities of reviving commons and commoning practices.

Prerequisite: 8.0 credits

Exclusion: GGR387H1 (Special Topics in Environmental Geography: Commons, Commoning and Ecologies of Care in a Post-Covid World), offered in Winter 2021

Recommended Preparation: 1.0 credit in GGR, including GGR223H1

Breadth Requirements: Society and its Institutions (3)

GGR324H1 - Spatial Political Economy

Previous Course Number: POL371H1

Hours: 24L

This course aims to explore how economic agents act and interact in space and how this creates subdivisions within the global, national and regional political economy. In a largely conceptual and interdisciplinary manner, the course investigates the role of institutions in the relational economy and the spatial construction of the political economy. Institutions are viewed as formal or informal stabilizations of economic interaction. Questions which guide the analysis are related to how institutions are established, how they evolve, how they impact economic action, and how they are changed through political and economic action at different spatial scales. Through this, the course introduces a relational and spatial perspective to the analysis of economic action and institutions. This perspective is based on the assumption that economic action is situated in socio-institutional contexts, evolves along particular paths and, at the same time, remains fundamentally contingent. Topics to be discussed include the social construction of economic space, industrial organization and location, the establishment and maintenance of economic networks, as well as processes of firm formation, learning and knowledge creation.

Prerequisite: 8.0 credits

Exclusion: POL371H1

Recommended Preparation: One of ECO101H1, GGR112H1, GGR221H1, GGR251H1, GGR252H1

Breadth Requirements: Society and its Institutions (3)

JUG325H1 - Landscapes of Violence in Canada

Hours: 24L

This course examines how violence is enacted in Canada, at various scales, and across domestic, urban, national, and international landscapes. We will interrogate what is meant by violence; examine its colonial, racial and patriarchal dimensions; explore the impact on people and communities; and attend to forms of resistance and repair.

Recommended Preparation: CDN267H1, CDN268H1

Breadth Requirements: Society and its Institutions (3)

GGR326H1 - Remaking the Global Economy

Hours: 24L

Examines links between global economic integration and geographically uneven economic development. Focuses on debates and empirical studies on global production networks (GPNs), and associated issues such as offshoring, outsourcing, and upgrading. Blends analysis of both theory and practice of business firms and regional development. Seeks to develop an in-depth understanding of the key actors driving contemporary global economic transformation, within the 'transnational space' constituted and structured by transnational firms, state institutions, and ideologies.

Prerequisite: 8.0 credits

Exclusion: GGR300H1 (Special Topics in Geography I: Remaking the Global Economy), offered in Winter 2014

Recommended Preparation: GGR112H1/ GGR220H1/ GGR221H1/ GGR251H1, 1.0 credit in Geography (SOC SCI/BR=3) at the 200+ level

Breadth Requirements: Society and its Institutions (3)

GGR327H1 - Geography and Gender

Hours: 24L

Introduction to the work of feminist geographers. The course will explore the relationship between gender and space, emphasizing spatial cognition, architecture, and layout of the city.

Exclusion: GGR313H5

Recommended Preparation: 8.0 credits including 1.0 credit in Geography (SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR328H1 - Labour Geographies

Hours: 24L

Explores changes in the nature of work and the structure and geography of labour markets. Topics will include globalization, lean production, flexibility and risk, industrial relations, workfare, the body at work, and gender and work.

Prerequisite: 8.0 credits including 1.0 credit in Geography (SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR329H1 - The Global Food System

Hours: 24L

Explores the changing global geographies of food by tracing international movements of food through both mainstream and 'alternative' supply chains. The implications for sustainability, food security, community autonomy and health are investigated.

Exclusion: GGR287H5

Recommended Preparation: 8.0 credits including 1.0 credit in Geography (SOC SCI/BR=3). GGR107H1 recommended.

Breadth Requirements: Society and its Institutions (3)

JGE331H1 - Resource and Environmental Theory

Hours: 24L

Introduction to and critical evaluation of major ideas and conceptual traditions underpinning environmental and natural resource politics and regulation. Topics include: parks and protected areas, market-based environmental regulation, property rights and conservation, Malthusianism, and biodiversity conservation. Emphasis is placed on critical reading of primary texts.

Prerequisite: GGR100H1/ JEG100H1/ GGR107H1/ ENV221H1/ ENV222H1/ GGR222H1/ GGR223H1

Recommended Preparation: 8.0 credits

Breadth Requirements: Society and its Institutions (3)

GGR332H1 - Social Geographies of Climate Change

Previous Course Number: GGR387H1

Hours: 24L

Analyses the social and behavioural geographies of climate change, including: climate change communication (how we interpret and communicate climate science); climate change prevention strategies, from the macro to micro scale; and possibilities for climate change adaptation.

Exclusion: GGR387H1 (Special Topics in Environmental Geography: The Social Geographies of Climate Change), offered in Winter 2020

Recommended Preparation: 8.0 credits, GGR223H1, GGR271H1

Breadth Requirements: Society and its Institutions (3)

GGR334H1 - Water Resource Management

Hours: 24L

Managing demand and supply; linkages between water quality and human health. Case studies from the industrial world and from developing countries, rural and urban. Implications of population growth and climate change for water resource management.

Exclusion: GGR288H5

Recommended Preparation: 8.0 credits including one of JEG100H1/ GGR100H1, GGR107H1, GGR223H1

Breadth Requirements: Society and its Institutions (3)

GGR336H1 - Urban Historical Geography of North America

Hours: 24L

This course explores the emergence and reproduction of class and racial social spaces, the development of new economic spaces, and the growing importance of the reform and planning movements. Emphasis is on metropolitan development between 1850 and 1950.

Recommended Preparation: 8.0 credits including one of GGR124H1, GGR241H1, GGR254H1

Breadth Requirements: Society and its Institutions (3)

GGR338H1 - Social Transformation and Environment in the Majority World

Hours: 24L

This course draws upon a number of geographical theories, debates and case studies to explore the geographical implications of an increasingly interconnected global capitalist economy for interactions

among the people and environments in places in the 'majority world'. Situated within the context of climate change this course examines the evolution of discourses of 'development' and their relationship to western (Anglo-American) racialized notions of progress and modernity.

Recommended Preparation: 8.0 credits including one of [GGR107H1](#), [GGR223H1](#)

Breadth Requirements: Society and its Institutions (3)

GGR339H1 - Urban Political Geographies

Hours: 24L

Investigates North American urban political geography, exploring conflicts over immigration, environment, gentrification, homelessness, labour market restructuring, 'race' and racism, urban sprawl, nature and environment, gender, sexuality, security, and segregation. Explores competing visions of city life and claims on urban space. The course investigates how these struggles connect to economic, social and environmental politics at larger spatial scales, and considers different theoretical frameworks that geographers have developed to make sense of both the persistence of old problems and the emergence of new ones. Potential field trip, cost: approximately \$21.

Exclusion: [GGR349H5](#)

Recommended Preparation: 8.0 credits including [GGR124H1](#), [GGR246H1](#)/ [GGR254H1](#)

Breadth Requirements: Society and its Institutions (3)

GGR340H1 - Health Geography

Hours: 24L

An exploration of the aspects of health in which place or location matters. Particular attention will be paid to the role of environments (physical, social, etc.) in explaining differences in health between places, the structuring of health-related behaviour in place, and the development of health policy for places.

Prerequisite: [GGR270H1](#), or the combination of [STA220H1](#) and [HST250H1](#)

Recommended Preparation: 8.0 credits, including [GGR223H1](#)

Breadth Requirements: Society and its Institutions (3)

GGR341H1 - The Changing Geography of Latin America

Hours: 24L

Seeks to develop a general understanding of present-day Latin America by focusing on human-environment interactions, past and present. Case studies are used to understand the diversity of Latin American landscapes (physical and cultural), and how they are changing within the context of globalization.

Recommended Preparation: 8.0 credits including 1.0 in Geography (SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR342H1 - The Changing Geography of Southeast Asia

Hours: 24L

Examines changes in the social, political and economic geography of Southeast Asian countries. Examples drawn from Thailand, Singapore, Indonesia, Vietnam and the Philippines as these emerging newly industrialized countries enter the 21st century. Emphasis on political-economy, urbanization and environment since 1950.

Recommended Preparation: 8.0 credits including 1.0 credit in Geography (SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR343H1 - The Changing Geography of China

Hours: 36L

The evolving social, political and economic landscape of China. Focus on development strategies and their effects on agriculture, industry, urbanization, city planning and the environment since 1949. Special attention paid to the interconnected development trajectories shaping urban and rural areas, together with the complex interactions between the built and social environments.

Prerequisite: 8.0 credits

Recommended Preparation: 1.0 credit in Geography (SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR344H1 - Institutions and Governance: Germany in Comparative Perspective

Previous Course Number: POL372H1

Hours: 24L

The goal of this course is to explore the structure and geography of the German political economy in the context

of economic globalization by systematically comparing institutional conditions with those in other countries. This perspective enables us to identify different capitalist systems and characterize Germany as a more socially balanced economic governance model compared with market-liberal systems in the US, UK and Canada. Drawing on the varieties-of-capitalism and other approaches, the main themes in the course address the institutional conditions for development. In a comparative perspective, the course explores topics, such as the role of collective agents and collective bargaining, corporate governance and finance, inter-firm co-operation and regional networks, social security systems, and population structure and immigration. To better understand the current challenges to the German governance model, the institutional opportunities and limitations are investigated under which different regional economies develop in unequal ways.

Prerequisite: 8.0 credits

Exclusion: POL372H1

Recommended Preparation: 1.0 GGR or POL credit

Breadth Requirements: Society and its Institutions (3)

JGU346H1 - The Urban Planning Process

Previous Course Number: JGI346H1

Hours: 24L

Overview of how planning tools and practice shape the built form of cities. This course introduces twentieth century physical planning within its historical, social, legal, and political contexts. Community and urban design issues are addressed at local and regional scales and in both central cities and suburbs. The focus is on Toronto and the Canadian experience, with comparative examples from other countries, primarily the United States. Transportation costs: \$20.

Exclusion: JGI346H1, GGR361H5

Recommended Preparation: 8.0 credits including

GGR124H1, URB235H1, URB236H1

Breadth Requirements: Society and its Institutions (3)

GGR347H1 - Efficient Use of Energy

Previous Course Number: JGE347H1

Hours: 24L/6T

Examines the options available for dramatically reducing our use of primary energy with no reduction in meaningful energy services, through more efficient use of energy at the scale of energy-using devices and of entire energy systems. Topics covered include energy use in buildings, transportation, industry, and agriculture. **Offered alternate years from GGR348H1.**

Prerequisite: Physics SPH3U

Exclusion: GGR333H1, JGE347H1

Recommended Preparation: 8.0 credits including first year Math and/or Physics

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR348H1 - Carbon-Free Energy

Previous Course Number: JGE348H1

Hours: 24L/6T

Examines the options available for providing energy from carbon-free energy sources: solar, wind, biomass, nuclear, and fossil fuels with capture and sequestration of CO₂. The hydrogen economy is also discussed. **Offered alternate years from GGR347H1.**

Prerequisite: Physics SPH3U

Exclusion: GGR333H1, JGE348H1

Recommended Preparation: 8.0 credits including first year Math and/or Physics

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR349H1 - Managing Urban Natures

Hours: 24L

Recent calls to action by the Intergovernmental Panel on Climate Change and the World Wildlife Fund indicate we are at a crossroads in responding to accelerating global warming and biodiversity loss. Cities are often at the forefront of these transformations, both in feeling their effects but also initiating responses. How might we reimagine our cities in a way that promotes thriving and equitable ecosystems? What tools exist in the policy landscape to initiate needed changes? What innovative responses are emerging to confront the challenges of increased flooding, rising temperatures, habitat fragmentation, and food insecurity? How might we reimagine an urban commons? With a primary focus on Canadian cities, in this course we explore the ways divergent conceptualizations of urban-nature have informed policies and practices drawing largely from critical, political ecology, and Indigenous perspectives; the policy landscape that informs current urban planning; and new and innovative approaches that help us to reshape and reimagine our relationships to urban nature, including initiatives led by municipalities, non-government organizations and citizens groups.

Prerequisite: 8.0 credits

Exclusion: GGR300H1 (Topics: Managing Urban Natures), offered in Fall 2017

Recommended Preparation: GGR223H1

Breadth Requirements: Society and its Institutions (3)

GGR354H1 - Infrastructure

Previous Course Number: GGR300H1 (20175)

Hours: 24L

Infrastructure is the term that describes the transportation systems, sewers, pipes, and power lines that provide urban dwellers with necessary public services. In recent years, billions of dollars of public money have been spent upgrading existing infrastructure, and planning and delivering new facilities. Infrastructure has many impacts on the way that people in cities live. The way that infrastructure systems are planned, financed, and distributed impact on environmental sustainability, job creation, social equity, economic development, and urban livability. Moreover, infrastructure has the potential to both serve existing populations, and shape the way that future communities are built. Through lectures, discussions, workshops, readings of scholarly articles and case studies, the course will aim to engage students in the key topics and debates related to the provision of urban infrastructure. Topics to be covered will include: project planning, causes and cures for cost overruns, funding models, financing mechanisms such as public-private partnerships, and the politics of facility planning and management.

Prerequisite: 8.0 credits

Exclusion: GGR300H1 (Topics: Infrastructure), offered in Summer 2017

Breadth Requirements: Society and its Institutions (3)

GGR357H1 - Housing and Community Development

Hours: 24L

Focuses on the importance of adequate housing and quality neighbourhoods. It roots theoretical explanations and policy debates in realities using Canada and Toronto as examples. Topics covered include the evolution of public policies relating to social housing, rental housing, homeownership, neighborhoods, and homelessness.

Recommended Preparation: 8.0 credits including GGR124H1 and 1.0 credit in Geography (SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR359H1 - Comparative Urban Policy

Hours: 24L

This course considers urban public policy. Urban policy is not natural or inevitable response to urban problems. It is actively produced (and contested) by an array of voices, institutions, and social forces. Actualized urban policies are thus best understood and evaluated as products of

these influences. The first half of the course will cover broad theoretical matters pertaining to the production of urban policy. The second half of the course will focus more intensively on one problem—urban decline—and explore the actualized approaches that have been brought to bear to manage it.

Prerequisite: 8.0 credits including 1.0 credit in Geography (SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR360H1 - Culture, History, and Landscape

Hours: 24L

The history of approaches to the idea of landscape. A consideration of the origins and uses of the term in geographical inquiry will be followed by a series of case studies, global in scope, from the Early Modern period to the present. Emphasis will be placed on the representational and lived aspects of landscapes, as well as struggles over their definition, interpretation, and use.

Recommended Preparation: 8.0 credits including 1.0 credit in Geography (HUM/BR=1 or SOC SCI/BR=3)

Breadth Requirements: Creative and Cultural Representations (1)

GGR363H1 - Critical Geographies: An Introduction to Radical Ideas on Space, Society and Culture

Hours: 36L

Introduces a diversity of critical perspectives for geographers and others, including anarchism, Marxism, feminism, sexual politics, postcolonialism, anti-imperialism and anti-racism. In so doing it illustrates how such radical ideas about space, society and culture have contributed to our political thought and action.

Recommended Preparation: 8.0 credits including 1.0 credit in Geography (SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR372H1 - GIS for Public Health

Hours: 24L/12P

The goal of this course is to leave students with appreciation of the power of Geographic Information Systems (GIS) to explore and analyze spatial health and medical data. The course will focus on organizing health

data in a GIS, clustering detection methods, and basic spatial statistics. Other topics like agent-based models and visualization techniques will be touched upon. Lab work will provide hands on experience with example data, leaving students with a firm grasp of contemporary health and medical problems and a skill set of spatial analytical methods that can be used to solve them.

Prerequisite: 8.0 credits including [GGR272H1](#)

Exclusion: [GGR335H5](#)

Recommended Preparation: [GGR270H1](#), [GGR273H1](#)

Breadth Requirements: Society and its Institutions (3)

GGR373H1 - Advanced Geographic Information Systems

Hours: 24L/24P

Advanced theory, techniques, and applications in geographic information systems (GIS), including interpolation, geostatistics, modeling, and raster and vector analysis. GIS project design and implementation.

Prerequisite: 8.0 credits including [GGR273H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR374H1 - Urban Dynamics

Hours: 24L

This course will focus on the social and economic repercussions associated with the formation and evolution of polynuclear urban regions in response to global economic restructuring. Foci will include the importance of knowledge and innovation in the process of economic development, social and economic polarization at multiple spatial scales, planning interventions to address these polarities, and strategies and tactics in the promotion of more sustainable urban-centred regional economies.

Recommended Preparation: 8.0 credits including 2.0 credits in Geography (SOC SCI/BR=3). A statistics course ([GGR270H1](#) or other) will be an asset.

Breadth Requirements: Society and its Institutions (3)

GGR375H1 - Introduction to Programming in GIS

Hours: 24L

This course will introduce students to the fundamentals of programming, followed by an applied focus on using these skills in geographic information systems. Students will learn how to programmatically edit spatial data, automate

common processes, and conduct complex spatial analyses. The course will emphasize open-source software that enriches geospatial data analysis alongside the data processing and analytical capabilities of existing GIS software. Classroom time will be a mix of short lectures and laboratory exercises.

Prerequisite: 8.0 credits including [GGR272H1](#)/[GGR274H1](#)

Exclusion: [GGR386H1](#) (Special Topics in Geographic Information Systems: Programming in GIS), offered in Fall 2019 and Winter 2021

Recommended Preparation: One of [CSC108H1](#)/[GGR273H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR376H1 - Geovisualization

Hours: 24L

Visualizing geographic information forms an important step in aiding visual thinking, generating hypotheses, and communicating findings relating to places. Geovisualization not only involves the display of spatial data through static maps, but also the process of creating 3D, dynamic, or interactive visualizations for data exploration, insights, and analysis. This course will introduce the foundations and capabilities of geovisualization for scientific communication, and students will learn techniques and tools to develop and critically appraise a range of geovisual outputs.

Prerequisite: 8.0 credits including [GGR272H1](#)/[GGR274H1](#)

Exclusion: [GGR386H1](#) (Special Topic: Geovisualization), offered in Fall 2022

Recommended Preparation: [GGR273H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

Course Experience: University-Based Experience

GGR377H1 - Introduction to Urban Data Analytics

Hours: 24L/12P

This course draws on census and economic data collection, processing, and analysis to teach written and visual storytelling about cities with data and maps, while exploring the uses of real-time data and analytics to solve urban problems. It provides a socio-economic and political context for the use of big data and the smart cities movement, focusing on data ethics and governance.

Prerequisite: 8.0 credits

Recommended Preparation: [GGR270H1](#)/[ECO220Y1](#)

ECO227Y1/ EEB225H1/ GGR270Y1/ LIN305H1/ POL222H1/ POL242Y1/ PSY201H1/ SOC202H1/ STA220H1/ STA248H1/ STA250H1/ STA261H1, GGR272H1, GGR274H1

Breadth Requirements: Society and its Institutions (3)

GGR382H1 - Field Course in Human Geography

Introduction to field studies in human geography. The course includes exercises and a project during a one-week field study in late August or early September, some preparation during the preceding summer and complementary practical work and/or seminars during the Fall Term. Each student is required to pay the costs of their transportation and accommodation (field trip costs: \$600). Students must submit an application directly to the Department in the spring (see the [Geography website](#) for details in March). Course may be limited by size. Not eligible for CR/NCR option.

Prerequisite: Permission of instructor

Exclusion: GGR389H5

Recommended Preparation: 8.0 credits

Breadth Requirements: Society and its Institutions (3)

GGR385H1 - Special Topics in Geography

Previous Course Number: GGR300H1

Hours: 24L

Content in any given year varies by instructor. Students must meet the prerequisites set by the department (see the Geography website for details in May). The program in which this course can be used depends on its content.

GGR386H1 - Special Topics in Geographic Information Systems

Previous Course Number: GGR300H1

Hours: 24L

Content in any given year varies by instructor. Students must meet the prerequisites set by the department (see the Geography website for details in May). Can be used towards GIS, Human Geography, and Environmental Geography programs.

Prerequisite: GGR272H1

GGR387H1 - Special Topics in Environmental Geography

Previous Course Number: GGR300H1

Hours: 24L

Content in any given year varies by instructor. Students must meet the prerequisites set by the department (see the Geography website for details in May). Can be used towards Environmental Geography and Human Geography programs.

Breadth Requirements: Society and its Institutions (3)

GGR388H1 - Special Topics in Physical & Environmental Geography

Previous Course Number: GGR300H1

Hours: 24L

Content in any given year varies by instructor. Students must meet the prerequisites set by the department (see the Geography website for details in May). Can be used towards Physical & Environmental Geography and Environmental Geography programs.

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR389H1 - Special Topics in Human Geography

Previous Course Number: GGR300H1

Hours: 24L

Content in any given year varies by instructor. Students must meet the prerequisites set by the department (see the Geography website for details in May). Can be used towards Human Geography programs.

Breadth Requirements: Society and its Institutions (3)

GGR390H1 - Field Methods

Introduction to field methods in geomorphology, vegetation mapping/analysis, soils, hydrology, and climatology. The course includes exercises and a group project during a one-week field camp, a little preparation during the preceding summer, and complementary practical work and/or seminars during the Fall Term. Each student is required to pay the costs of their transportation and accommodation (field trip costs: approximately \$485). This course meets the field requirement for Physical & Environmental Geography programs. The field camp

normally runs for one week at the end of August. Students must submit an application directly to the Department in the spring (see the [Geography website](#) for details in March). Course may be limited by size. Not eligible for CR/NCR option.

Prerequisite: 1.0 credit from [JEG100H1](#), [GGR201H1](#), [GGR203H1](#), [GGR205H1](#), [GGR206H1](#), [GGR305H1](#), [ENV234H1](#), or permission of the instructor

Recommended Preparation: 8.0 credits including [GGR270H1](#)

GGR398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...> Not eligible for CR/NCR option.

GGR398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...> Not eligible for CR/NCR option.

GGR399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...> Not eligible for CR/NCR option.

GGR400H1 - Special Topics in Geography I

Hours: 24S

Content in any given year depends on instructor. The program in which this course can be used depends on its context. Consult Departmental Office in April.

Prerequisite: 10.0 credits

Recommended Preparation: 2.0 GGR credits (HUM/BR=1 or SOC SCI/BR=3)

GGR401H1 - Special Topics in Geography II

Content in any given year depends on instructor. The program in which this course can be used depends on its context. Consult Departmental Office in April.

Prerequisite: 10.0 credits

Recommended Preparation: 2.0 credits (SCI/BR=4) in any of GGR/ESS/BIO/CHM/EEB/FOR

GGR406H1 - Geomorphology and the Anthropocene

Hours: 12L/12S

In this seminar course, we will use lectures, readings, and classroom activities to investigate the ways in which Earth's surface has been impacted by humans while considering the role of geomorphology as a science for understanding these changes.

Prerequisite: [GGR201H1](#)

Exclusion: [GGR401H1](#) (Special Topics in Geography II: Geomorphology and the Anthropocene), offered in Winter 2020

Recommended Preparation: 10.0 credits, [GGR272H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR413H1 - Watershed Hydroecology

Hours: 24L

Modern developments in hydrology and ecology, including form and process models, interactions of hydrology, ecology and geomorphology; the course emphasizes the use of computer simulation models of drainage basin processes.

Prerequisite: 10.0 credits

Recommended Preparation: [GGR201H1](#), [GGR206H1](#), [GGR270H1](#), [GGR272H1](#) or [GGR337H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR415H1 - Advanced Remote Sensing

Previous Course Number: GGR414H1

Hours: 18L/8T/4P/2S

Building on [GGR315H1](#) (formerly [GGR337H1](#)) Environmental Remote Sensing with advanced theories and techniques for land cover mapping, vegetation

biophysical and biochemical parameter retrievals, optical and thermal remote sensing of urban environment, and application of satellite remote sensing to terrestrial water and carbon cycle estimation. Basic radiative transfer theories as applied to vegetation will be given in some detail as the basis for various remote sensing applications. Optical instruments for measuring vegetation structural parameters will be demonstrated in the field.

Prerequisite: 10.0 credits including GGR315H1/GGR337H1

Exclusion: GGR414H1

Recommended Preparation: GGR272H1, GGR273H1, GGR373H1

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR416H1 - Environmental Impact Assessment

Hours: 24L/4T

Environmental impact assessment (EIA) has emerged as a key component of environmental planning and management. EIAs are planning tools to predict and assess the potential costs and benefits of proposed projects, policies, and plans and avoid or mitigate the adverse impacts of these proposals. This course focuses on the origins, principles, scope, and purpose of EIA from theoretical and practical perspectives, emphasizing the Canadian context. We will also explore the various components of EIAs and critically evaluate techniques to assess, predict, and mitigate impacts. Through course readings, in-class activities, and assignments, we will engage critiques of EIAs, particularly as they relate to considerations of climate change, sustainability, long-term monitoring, meaningful public engagement, indigenous people's rights, dispossession and resettlement, and environmental justice. Case studies will allow students to learn about current practices in EIA and develop skills to examine and improve EIA processes.

Prerequisite: 10.0 credits and 2.0 GGR credits including GGR270H1, GGR271H1

Recommended Preparation: One of GGR222H1/GGR223H1 or ENV236H1/JGE236H1

Breadth Requirements: Society and its Institutions (3)

GGR418H1 - Geographies of Extraction

Hours: 24S

Examines political aspects of the appropriation of natural resources, including policy and regulation, environmental impacts, and social justice. Emphasis is placed on reading contemporary literature on the politics of resource access

and control from geography and other social science disciplines.

Prerequisite: 10.0 credits including GGR223H1

Breadth Requirements: Society and its Institutions (3)

GGR419H1 - Environmental Justice

Hours: 24S

Examines how environmental problems affect people, communities and societies differentially and how marginalized communities and people often bear the brunt of environmental costs, while contributing little to their creation. It uses readings and case studies from across the globe to address the production of environmental injustice and the struggle for environmental justice.

Prerequisite: 10.0 credits

Recommended Preparation: 1.0 credit in Geography (SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR421H1 - Histories of Geographical Thought

Hours: 24S

The history of geography as an intellectual subject, focusing primarily on the modern period, and on the genealogies of central concepts. Disciplinary developments will be situated next to broader contexts, including imperialism and militarism, the relationship between culture and nature, and the shifting social role of the academy.

Prerequisite: 10.0 credits

Recommended Preparation: 2.0 credits in Geography (HUM/BR=1 or SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR424H1 - Transportation Geography and Planning

Previous Course Number: GGR324H1

Hours: 24L

Introductory overview of major issues in interurban and intraurban transportation at the local, national and international scale. Topics include urban transportation, land use patterns and the environment, causes of and cures for congestion, public transit, infrastructure finance, and transport planning and policy setting.

Prerequisite: 10.0 credits including one of GGR124H1/
GGR217H1/ GGR221H1

Exclusion: CITC18H3

Recommended Preparation: GGR270H1

Breadth Requirements: Society and its Institutions (3)

GGR429H1 - Innovation and Governance

Previous Course Number: POL408H1

Hours: 24S

The course focuses on a broad range of topics related to innovation and governance, such as (i) technological change and its social and economic consequences, (ii) the spatial effects which result from this, and (iii) the necessities for economic policies at different territorial levels. Since international competitiveness of industrialized economies cannot be based on cost advantages alone, future growth in the knowledge-based economy will be increasingly associated with capabilities related to creativity, knowledge generation and innovation. As a consequence, questions regarding the performance in innovation and effectiveness of policy support become decisive at the firm level, regional level and national level. The first part of the course deals with conceptual foundations of innovation processes, such as evolutionary and institutional views of innovation. In the second part, national configurations of innovation processes are investigated. The third part deals with innovation at the subnational level, focusing on regional clustering, institution building, multilevel governance, and regionalized innovation systems.

Prerequisite: 10.0 credits

Exclusion: POL408H1

Recommended Preparation: One of GGR221H1, GGR251H1, GGR324H1, GGR326H1, GGR328H1, GGR374H1

Breadth Requirements: Society and its Institutions (3)

GGR430H1 - Geographies of Markets

Hours: 36S

Focuses on actually-existing markets and their geographically-mediated formation and assemblage. Explores how markets are produced, stabilized, reshaped and fall apart at multiple geographic scales. We examine issues such as the debates on states versus markets, embeddedness of markets, neoliberalism and moral justification of markets, varieties of capitalism, regionally variegated capitalism, post-socialist market transitions, and the dynamic evolution of market institutions and economic landscapes.

Prerequisite: 10.0 credits including at least 1.0 credit in 300+ level Geography (SOC SCI/BR=3)

Exclusion: GGR400H1 (2013-14)

Recommended Preparation: GGR220H1/ GGR221H1, GGR326H1

Breadth Requirements: Society and its Institutions (3)

GGR431H1 - Regional Dynamics

Hours: 24L

Economic activity, and related indices of socioeconomic well-being and human capital, have always tended to concentrate in space, leaving specific regions to be classified as “creative”, “developed”, or “core” regions and others as “have-not”, “less-developed”, “peripheral”, or “marginal” regions. As a result, regional economic change has been very difficult to fully explain (and certainly predict) using conventional (orthodox) theories and methods. This course examines the theoretical linkage between related trends in terms of globalization, vertical disintegration, specialization, innovation, and the locational behaviour of firms. We will focus on the seemingly counter-intuitive finding that regional economic change in a time of increasing global interdependence is increasingly dependent on the local context. Topics will include evolutionary economic geography, path dependence, economic clusters, learning regions, the role of institutions, knowledge spill-overs, and the geography of innovation, among others. We will see why the economic activity is becoming ever more concentrated in space even as it globalizes. The course makes extensive use of empirical case studies from around the globe.

Prerequisite: 10.0 credits including GGR221H1/
GGR251H1

Recommended Preparation: GGR326H1, GGR270H1. A statistics course (GGR270H1 or other) will be an asset.

Breadth Requirements: Society and its Institutions (3)

GGR432H1 - China in the Global Political Economy

Hours: 24S

Set against the backdrop of the rise of China, and following the perspective of geographic political economy, this seminar course examines the interactions between and mutual transformations of the Chinese economy and the global economy. We will focus on the evolving political and institutional foundations of China's post-Mao, hybrid, hierarchical market-authoritarian system. Key sectors – telecoms, Internet, semiconductor, and automobile – will be examined to understand the nuances of China's integration into the global production through state-directed uneven domestic development, and in turn the challenges raised by escalating international conflicts.

Prerequisite: 10.0 credits

Exclusion: GGR389H1 (Special Topic: China in the Global Political Economy), offered in Fall 2022

Recommended Preparation: 1.0 credit from GGR221H1, GGR251H1, GGR343H1, GGR324H1, GGR343H1, JPA331H1, ANT341H1

Breadth Requirements: Society and its Institutions (3)

GGR433H1 - Built Environment and Health

Hours: 36S

Linking across fields that include public health, geography and planning, this course examines the growing evidence and ways in which human health is affected by the design and development of the built environment in which we live, work and play. The course considers how various planning and development decisions impact population and individual health, particularly in relation to chronic diseases, injuries, and mental health. Potential of several local field trips (transportation costs: approximately \$20).

Prerequisite: 10.0 credits

Exclusion: GGR400H1 (Special Topics in Geography I: Built Environments & Health), offered in Winter 2013

Recommended Preparation: 1.0 credit in Geography (SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR434H1 - Building Community Resilience

Hours: 36S

Examines concepts of resilience as a way of building the capacity of communities to (a) respond to predicted disruptions/shocks associated with climate change, global pandemics, anticipated disruptions in global food supply, energy insecurity, and environmental degradation; and (b) nurture the development of alternative spaces that support the emergence of more life-sustaining structures and practices. Includes explicit attention to equity and public health, and explores issues such as: participatory governance of social-ecological systems, the nature of social change, complexity science, the role of social movements, indigenous and political ecology perspectives.

Prerequisite: 10.0 credits

Exclusion: GGR400H1 (2011-12)

Recommended Preparation: 1.0 credit in Geography

Breadth Requirements: Society and its Institutions (3)

GGR437H1 - Geographies of Waste

Hours: 36S

This seminar course examines how waste is made and how it circulates locally, regionally, and globally. It considers changing conceptions of 'waste' and the wider systems that have shaped efforts to manage waste through a selection of historic and contemporary geographies of waste. We will examine waste as a resource (e.g., recycling, composting) and waste avoided (e.g., reuse, repair). Through case studies, we will analyze waste – including urban wastewater – in relation to policy and planning, political economy, forms of labour and infrastructure, and the social norms and values that have shaped people's relationship to it.

Prerequisite: 10.0 credits

Recommended Preparation: 1.0 credit in Geography (SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR438H1 - Environment and Development

Hours: 36S

Examines the implications of development – as an economic and social project – for how the environment is used, by whom, and to what ends. Draws on literatures in political ecology and critical development geography. Topics include: interpretations of scarcity and degradation, questions of consumption, and the greening of development. Examines expansion of and struggles over new forms of green infrastructure in urban and rural settings.

Prerequisite: 10.0 credits

Recommended Preparation: 1.0 credit in Geography (SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

JGC439H1 - The Problem and Promise of Caribbean Freedom

Hours: 24L

This course surveys the institutional and ideological structures that have historically internally and externally governed the Caribbean; the patterns of uneven development and crisis they have produced and the forms of agency, resistance they have produced. Centering the social, economic, and spatial inter-connectedness of the Caribbean territorial region and its increasingly de-territorialized diaspora, we explore possibilities for

economic, social and climate justice for all Caribbean communities.

Prerequisite: 10.0 credits

Exclusion: GGR400H1 (Special Topic: The Problem and Promise of Caribbean Freedom), offered in Winter 2023

Recommended Preparation: 1.0 credit in Geography (SOC SCI/BR = 3)

Breadth Requirements: Society and its Institutions (3)

JIG440H1 - Indigenous Geographies

Previous Course Number: GGR400H1 in 20199

Hours: 36S

This course draws on theoretical texts of Indigeneity, with a primary focus on Indigenous spaces in the Americas. Course participants will examine how core geographic concepts such as place, territory, land, movement and the scale of the body are sites of colonial dispossession and violence, as well as sites for decolonial and liberatory thought and practice. We will primarily engage with Indigenous-led scholarship within Geography and Indigenous Studies, and creative forms of knowledge production generated across Indigenous communities.

Prerequisite: 10.0 credits including one of INS200H1, INS201Y1, INS250H1, GGR107H1, GGR124H1, GGR240H1, GGR246H1, GGR254H1

Exclusion: GGR400H1 (Special Topics in Geography I: Indigenous Geographies), offered in Fall 2019

Breadth Requirements: Society and its Institutions (3)

JGU454H1 - The Role of the Planner: Making a Difference

Previous Course Number: JGI454H1

Hours: 24L

Focuses on the role of a planning practitioner in contemporary society using a wealth of examples drawn from recent issues and debates in Canadian cities and regions. The course will walk students through the demands made of planners in terms of both technical expertise as well as political necessity and ask them to think actively about how to prepare for the extraordinary growth of cities during the next century. Examples of issues that will be discussed in some detail include the myths surrounding the city vs. the suburbs, the creativity and passion involved in planning work and the need to see Toronto's future from a regional perspective.

Prerequisite: 14.5 credits, 5.0 of which must be GGR/URB

Exclusion: JGI454H1

Breadth Requirements: Society and its Institutions (3)

GGR456H1 - Entanglements of Power: Race, Sexuality and the City

Hours: 24S

This course investigates the city as a space sculpted by particular configurations and relations of power, and productive of those forms. It considers shifting urban geographies of identity, economy and desire with a focus on race and racism, settler colonialism, empire, the laboring body, sexuality, and sexual identity. Course participants will engage a series of case studies of particular urban spaces and struggles, drawing on conceptual support from scholarship in urban geography, anti-colonial thought, political economy, black studies, feminist and queer theory, Indigenous and settler colonial studies, as well as literature and other artistic work.

Prerequisite: 10.0 credits

Exclusion: GGR400H1 (Special Topics in Geography I: Entanglements of Power: Race, Sexuality and the City), offered in Fall 2018

Recommended Preparation: 2.0 credits in GGR

Breadth Requirements: Society and its Institutions (3)

GGR458H1 - Selected Topics in Urban Geography

Hours: 24L

This course focuses on a special topic in urban geography and covers it with more depth than would otherwise be the case in a survey-oriented class. The aim is to utilize this single topic as a vehicle to understanding how urban geographical ideas are produced more widely. Check the department website for the theme (updated each year).

Prerequisite: 10.0 credits

Breadth Requirements: Society and its Institutions (3)

GGR460H1 - Global Cities, Urban Planning, Critical Theory

Previous Course Number: GGR400H1 (20181)

Hours: 36S

This seminar addresses the relationship between urbanization and global economic, political, cultural, social, demographic, technological and ecological dynamics. It does so with an emphasis on the contested legacies of city planning, urban design, architecture and urban political activism, by drawing on historical studies of global cities as well as critical-theoretical perspectives on the 'production of space'. While broaching the question what's 'production of space' got to do with social justice, we explore—with reference to pioneering thinkers in the

fields of planning, architecture and critical theory—such concepts as radical planning, the urban revolution and the right to the city.

Prerequisite: 10.0 credits

Exclusion: GGR400H1 (Topics: Planning and Global Cities), offered in Winter 2018

Recommended Preparation: 1.0 credit in Geography (SOC SCI/BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR462H1 - GIS Research Project

Hours: 24L

Students work in groups to develop their own research project and then acquire, organize and analyze geographic data to complete it. Emphasis is placed on research design, project management and the application of GIS concepts and skills learned in previous courses to a practical problem.

Prerequisite: 10.0 credits including GGR373H1

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR472H1 - Developing Web Maps

Hours: 24L

Explores the power of web mapping and CyberGIS, with a focus on hands-on learning and open source software. Students will learn about relevant software (exploring various APIs), data structures, methods, and cartographic and visualization techniques. Finally, students will work in groups to develop and deliver their own online web maps from scratch, on a topic of their choosing.

Prerequisite: 10.0 credits including GGR272H1 and one of GGR273H1 or GGR274H1

Breadth Requirements: The Physical and Mathematical Universes (5)

GGR473H1 - Geospatial Big Data

Hours: 24L

Advances in sensing and mobile technologies have contributed to the increasing availability of large volume georeferenced data such as geo-tagged social media content, GPS traces, and crowdsourced maps. While geospatial big data provide a major source for innovation and analysis, challenges relating to data handling, processing, and interpretation have simultaneously arisen. In this course, students will build a critical understanding

of the evolution, potential, and biases of geospatial big data. Knowledge of geo-computational techniques to handle geospatial big data and perform meaningful analysis will also be developed and applied.

Prerequisite: 10.0 credits including one of GGR272H1 or GGR274H1

Exclusion: GGR401H1 (Special Topic: *Geospatial Big Data*), offered in Fall 2022

Recommended Preparation: GGR273H1

Breadth Requirements: Society and its Institutions (3)

JGE481H1 - Field Course in Environmental Geography

Previous Course Number: GGR481H1

Introduction to field studies in environmental geography. The course may include individual assignments and group work. Field trips are concentrated during a one-week period in late August or early September. Some preparation during the preceding summer may be required. Periodic course meetings and shorter field trips continue, along with course work, during the Fall Term. Each student is required to pay the costs of their transportation and accommodation (field trip costs: \$102). Students must submit an application directly to the Department in the spring (see the [Geography website](#) for details in March). Course may be limited by size. Not eligible for CR/NCR option.

Prerequisite: 9.0 credits and permission of the instructor

Exclusion: GGR481H1

Recommended Preparation: 3.0 credits in Geography and/or School of the Environment (BR=3)

Breadth Requirements: Society and its Institutions (3)

GGR482H1 - Toronto Field Course

Examines the production of urban landscapes, built environments and social spaces in Toronto and surrounding areas through in-depth case studies. Coverage will vary some depending on instructor. The course consists of local field trips and in-class seminars and lectures. Students must submit an application directly to the Department in the spring (see the [Geography website](#) for details in March). Course may be limited by size. Not eligible for CR/NCR option. Field trip costs are normally low, but may go up to \$150.

Prerequisite: 10.0 credits

Recommended Preparation: 2.0 GGR credits

Breadth Requirements: Society and its Institutions (3)

GGR491Y1 - Research Project

Specially designed for students wishing to gain experience in conducting research in their area of specialization. Of particular value for geographers interested in graduate study, or positions in government, planning and consulting firms where research skills may be an asset. Students select a research problem and complete a project under the supervision of a faculty member. Enrolment requires written permission from a faculty supervisor and Associate Chair, Undergraduate; early discussion with a likely supervisor is encouraged. Enrolment may be completed at any time up to September; open to students in a Specialist or Major Program sponsored by the Department of Geography. Not eligible for CR/NCR option.

Prerequisite: 10.0 credits

GGR492H1 - Senior Practicum

Students design and implement an independent applied geography/planning project in consultation with an employer (paid or volunteer), who will act as their "client." Enrolment requires written permission from a staff supervisor and Associate Chair, Undergraduate. Only open to students who are enrolled in a Specialist or Major program sponsored by the Department of Geography. Not eligible for CR/NCR option.

GGR492Y1 - Senior Practicum

Students design and implement an independent applied geography/planning/GIS project in consultation with an employer (paid or volunteer), who will act as their "client." Enrolment required written permission from a staff supervisor and Associate Chair, Undergraduate. Only open to students who have completed 10.0 credits and who are enrolled in a Specialist, Major or GIS minor program sponsored by the Department of Geography. Not eligible for CR/NCR option.

GGR493Y1 - Geography Professional Experience

Undertake professional placement matching academic interests and career goals. Students meet regularly during the year in class to cover topics such as: reflective writing, project management, career planning, and the application of academic skills in professional contexts. Research project required that connects a topic related to placement with academic literatures. Normally, one day per week spent at placement site. For students in their final year of

a Geography major or specialist program of study, or the GIS Minor. Satisfies program requirements based on placement. Students must submit an application directly to the Department in the spring (see the [Geography website](#) for details in March). Course may be limited by size. Not eligible for CR/NCR option.

Prerequisite: 14.5 credits and an application

GGR496H1 - Independent Research

Independent research extension to one of the courses already completed in Geographic Information Systems. Enrolment requires written permission from a faculty supervisor and Associate Chair, Undergraduate. Only open to students who are in Year 3 or higher and who are enrolled in the GIS program sponsored by the Department of Geography. Not eligible for CR/NCR option.

Prerequisite: 10.0 credits

GGR497H1 - Independent Research

Independent research extension to one of the courses already completed in Environmental Geography. Enrolment requires written permission from a faculty supervisor and Associate Chair, Undergraduate. Only open to students who are in Year 3 or higher and who are enrolled in a Specialist or Major program sponsored by the Department of Geography. Not eligible for CR/NCR option.

Prerequisite: 10.0 credits

GGR498H1 - Independent Research

Independent research extension to one of the courses already completed in Physical Geography. Enrolment requires written permission from a faculty supervisor and Associate Chair, Undergraduate. Only open to students in Year 3 or higher and who are enrolled in a Specialist or Major program sponsored by the Department of Geography. Not eligible for CR/NCR option.

Prerequisite: 10.0 credits

GGR499H1 - Independent Research

Independent research extension to one of the courses already completed in a social science or humanities branch of Geography. Enrolment requires written permission from a faculty supervisor and Associate Chair, Undergraduate. Only open to students in Year 3 or higher who are enrolled in a Specialist or Major program

sponsored by the Department of Geography. Not eligible for CR/NCR option.

Prerequisite: 10.0 credits

German

Faculty List

Professors Emeriti

A.P. Dierick, MA, PhD (V)
 R.H. Farquharson, MA, PhD (V)
 H. Froeschle, MA, DrPhil (SM)
 W. Hempel, DrPhil (SM)
 H.L.M. Mayer, DrPhil (V)
 H.W. Seliger, MA, PhD (V)
 D. W.J. Vincent, MA, PhD (T)

Chair of the Department

TBA

Associate Chair (Graduate Studies)

TBA

Associate Chair (Undergraduate Studies)

TBA

Full Professors

W. Goetschel, PhD
 J. Noyes, PhD
 A. Shternshis, DrPhil
 J. Zilcosky, MA, PhD

Associate Professors

A. Fenner, PhD
 M. Hager, DrPhil
 C. Lehleiter, MA, PhD
 S. Soldovieri, MA, PhD
 M. Stock, DrPhil

Associate Professor, Teaching Stream

E. Boran, MA, PhD

Assistant Professor, Teaching Stream

H. Kim, PhD

Introduction

German-speaking countries enjoy a long tradition at the cultural and political core of Europe. During the last two hundred years their importance has steadily increased, and with the recent developments in Eastern Europe their influence seems certain to expand even more.

The importance of the German language has grown correspondingly: it is the second foreign language after English in the countries of central and Eastern Europe, and its use is spreading within the European Community. Learning German opens the door to many fields of

intellectual, technical and politico-economic endeavor. German scholars have been leaders in philosophy, the sciences, history, archaeology, sociology and political science. German literature is equally distinguished: writers like Goethe, Kafka, Rilke, Brecht, Mann, Wolf, Grass, Jelinek, Özdamar, etc., have dealt with the widest possible range of human problems and concerns, and have been recognized worldwide.

The Department of Germanic Languages and Literatures offers courses on literature from the Middle Ages to the present, so that the student may acquire an overview of this significant element of German life and culture. We offer language courses from beginning and intermediate to advanced levels, with practice in reading, writing, comprehending and speaking German, as well as stylistics, linguistics, and the specialized vocabulary and concepts of business. Language and literature instruction is integrated as far as possible, with the aim of teaching students advanced critical literacy in German. The department offers a minor in Yiddish, with instruction offered from beginning and intermediate to advanced levels. German combines well with other modern languages and literatures, and double-majors are encouraged. Students in a variety of programs, such as Cinema Studies, European Studies, Literary Studies, Drama, Music and others, will benefit from courses in German language, literature and culture. The Department supports opportunities for students to study and work in Germany, by encouraging participation in programs established by the German government, by Canadian universities, and by our own Arts and Science Faculty's Study Abroad Program.

A knowledge of German is a virtual necessity for specialists in many disciplines; it is also very useful in certain career areas (e.g., the foreign service, interpretation and translation, librarianship, business and commerce, music, tourism, and of course teaching). The successful completion of a four-year program, including seven approved courses in German, may entitle the student to enter the M.A. or Ph.D. program in the Graduate Division of the Department.

Students entering with some previous knowledge of German are required to contact the department to write an initial assessment test (placement test) and will then be advised to take courses at the appropriate level. Please check the department's website at german.utoronto.ca for more information.

Information on studies in German Language and/or Literature can be obtained from the Associate Chair for Undergraduate Studies at german.undergrad@utoronto.ca.

Enquiries:

Department of Germanic Languages and Literatures
 Address: 50 St. Joseph Street, Odette Hall #322
 Tel.: 416-926-2324
 Email: german@chass.utoronto.ca

Website: german.utoronto.ca

German Programs

German Studies Specialist (Arts Program) - ASSPE1400

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10 full courses or their equivalent)

1. GER100Y1, GER200Y1, GER300Y1, GER400H1
2. GER150H1 (to be taken as early as possible), GER205H1 (should be taken together with GER200Y1, must be taken prior to completing GER300Y1), GER305H1
3. At least 2.5 additional F.C.E. in GER courses on the 300-level
4. At least 1.0 additional F.C.E. in GER courses on the 400-level (except GER401H1)
5. No more than 3.0 F.C.E. courses taught in English
6. Up to 2 F.C.E. in identified or preapproved cognate courses may count (i.e. courses offered by other departments containing a relevant Germanic component and a final paper on a Germanic topic); please inquire at the Department and get approved in advance.

Notes: (a) All specialists should schedule an appointment with the Undergraduate Coordinator for personalized counselling as early in their studies as possible; (b) students with prior German knowledge are required to contact the department to take a placement test; self-placement is not allowed; (c) Completion of GER205H1 is a prerequisite for taking ANY 300-level literature courses taught in German; (d) completion of GER305H1 is a prerequisite for taking ANY 400-level literature courses taught in German; (e) 300-level courses may be replaced by 400-level courses (inquire in advance); (f) GER401H1 is not a program requirement, but recommended.

German Studies Major (Arts Program) - ASMAJ1400

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7 full courses or their equivalent)

1. GER100Y1, GER200Y1, GER300Y1, GER400H1
2. GER150H1 (to be taken as early as possible), GER205H1 (should be taken together with GER200Y1, must be taken prior to completing GER300Y1), GER305H1
3. At least 1.5 additional F.C.E. in GER courses on the 300-level
4. At least 0.5 additional F.C.E. in GER courses on the 400-level (except GER401H1)
5. No more than 1.5 F.C.E. courses taught in English
6. Up to 1.0 F.C.E. in identified or preapproved cognate courses may count (i.e. courses offered by other departments containing a relevant Germanic component and a final paper on a Germanic topic); please inquire at the Department and get approved in advance.

Notes: (a) All majors should schedule an appointment with the Undergraduate Coordinator for personalized counselling as early in their studies as possible; (b) students with prior German knowledge are required to contact the department to take a placement test; self-placement is not allowed; (c) Completion of GER205H1 is a prerequisite for taking ANY 300-level literature courses taught in German; (d) completion of GER305H1 is a prerequisite for taking ANY 400-level literature courses taught in German; (e) 300-level courses may be replaced by 400-level courses (inquire in advance); (f) GER401H1 is not a program requirement, but recommended.

Al and Malka Green Yiddish Program Minor (Arts Program) - ASMIN1163

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

1. (GER260Y1/ (GER261H1 and GER262H1) and GER360H1)/ GER463Y1
2. GER460H1/ GER462H1*
3. The remaining courses should be taken from: GER361H1, GER367H1, JGJ360H1, GER100Y1, GER150H1, or any course offered by and cross-listed by the Centre for Jewish Studies

*NOTE:

1. Students who took GER463Y1 cannot take GER260Y1/ GER261H1/ GER262H1 or GER360H1; students who

took GER260Y1/ GER261H1/ GER262H1 or GER360H1 cannot take GER463Y1.

2. Students who took GER462H1 cannot take GER460H1.

Course Groups

Centre for Jewish Studies Courses:

CJS200H1, CJS201H1, CJS390H1, CJS498Y1,
CJS499H1

Anthropology Courses:

ANT384H1, ANT426H1

Canadian Studies Courses:

CDN380H1

Diaspora and Transnational Studies Courses:

DTS200Y1, DTS300H1, DTS404H1

School of the Environment Courses:

ENV382H1

History Courses:

HIS208Y1, HIS242H1, HIS304H1, HIS317H1, HIS338H1,
HIS339H1, HIS351Y1, HIS353Y1, HIS361H1, HIS442H1,
HIS444H1, HIS451H1

Near and Middle Eastern Civilizations Courses:

NML155H1, NML156H1, HIS303H1, NML255H1,
NML220Y1, NML256H1, NML350H1, NML355H1,
NML356H1

Philosophy Courses:

PHL338H1, PHL362H1, PHL370H1, PHL410H1

Political Science Courses:

POL345Y1, POL430Y1, POL438H1, POL484H1,
POL486H1

Religion Courses:

MHB155H1, MHB156H1, MHB255H1, MHB256H1,
MHB355H1, MHB356H1, RLG100Y1, RLG202H1,
RLG220H1, RLG241H1, RLG280Y1, RLG316H1,
RLG322H1, RLG326H1, RLG336H1, RLG341H1,
RLG342H1, RLG347H1, RLG389H1, RLG411H1,
RLG418H1, RLG431H1, RLG452H1

Slavic Languages and Literatures Courses:

SLA202H1, SLA230H1, SLA495H1

Sociology Courses:

SOC201H1, SOC251H1

Business German Minor (Arts Program) - ASMIN2453

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 GER credits)

1. GER100Y1/ GER200Y1, OR proof of comparable German level

2. GER370H1 and GER372H1

3. 1.0 credit must be taken from GER270H1/ GER272H1/ GER290H1/ GER391H1

4. 1.0 additional GER or JGJ credit excluding GER150H1, GER194H1, GER195H1, GER197H1, GER198H1, GER199H1, GER220H1, GER251H1, GER275H1, GER354Y0, JGJ360H1, GER361H1, and GER410H1. Cognate courses may be substituted with approval of the department.

Note: Students enrolled in the German Studies Specialist of Major Program may not simultaneously enroll for a Business German Minor Program.

German Studies Minor (Arts Program) - ASMIN1400

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4 full courses or their equivalent)

1. GER100Y1, GER200Y1, GER300Y1

2. 1.0 F.C.E. in courses with a GER designator, but cannot be GER400H1 or GER401H1.

3. No more than 0.5 F.C.E. may be taken in English

Note: (a) Students registered for a German Specialist or Major may not simultaneously be registered for a German Minor program; (b) students with prior German knowledge are required to take a placement test and to see the adviser; (c) the exclusion of GER400H1 and GER401H1 does not apply if the student's entry level is post-GER100Y1.

German Studies in English (Arts Program) - ASMIN1405

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Requirements:

1. The Minor Program requires 4.0 credits, of which 3.0 credits must be GER courses.
2. GER150H1 is required.
3. A maximum of 1.0 credit in cognate courses is allowed (i.e. courses offered by other departments containing a relevant Germanic component and a final paper on a Germanic topic); please inquire at the Department and get approved in advance.

For a list of courses taught in English, please check the German Department website.

Note: Students registered for a German Specialist or Major may not simultaneously be registered for a German Minor program.

Certificate in Global German Studies (UofT Global Scholar) - ASCER1401

Enrolment Requirements:

This is an open enrolment Certificate. A student who has completed 4.0 credits may enrol in the Certificate.

Completion Requirements:

(Total: 2.0 credits)

- 1.0 credit in German language at any level, including GER100Y1, GER101H1, GER200Y1, GER201H1, GER272H1, GER300Y1, GER301H1, GER370H1, GER372H1, GER400H1.
 - Students with very advanced previous knowledge of German may in consultation with the Department take a combination of other 300 or 400-level GER topics courses (taught in German) to meet the requirement.
- GER290H1 'Global Issues / German Contexts'.
- 0.5 credit in global experience. May take the form of an internship course, GER391H1

'iPRAKTIKUM Experiential Learning and Internationalization Internship'. Students may also complete a study abroad course in a German-speaking country, such as GER354Y0. International Course Modules (ICM) or the GER398H0 Research Excursion Program also fulfil the global experience requirement with the previous consent of the department.

Faculty of Arts & Science Language Citation

The Department of Germanic Languages and Literatures participates in the Faculty of Arts & Science's Language Citation initiative for German. The study of German is a demanding and intellectually rewarding educational experience, providing students with excellent resources for understanding the culture of the German speaking world. German is now the second foreign language after English in the countries of central and Eastern Europe, and its use is spreading within the European Community. Learning German opens the door to many intellectual, technical, political, and economic fields. Successful study of German demonstrates intelligence, discipline, analytical sophistication, and an excellent memory. The study of any foreign language provides invaluable insights into the varieties of human culture and expression.

The Language Citation recognizes a significant level of achievement in language study with a high level of academic success. The Citation in German is available to students who complete GER100Y1 (or the equivalent prerequisite training) and earn a grade of at least B- in GER200Y1 and GER300Y1.

Students should note that, as explained in the [About Programs of Study](#) section of this Calendar, the Language Citation is not equivalent to an academic program and that enrolment in a program is not necessary in order to earn the recognition bestowed by the Citation.

Notes:

1. All students with previous knowledge of the German language, as well as students returning from extended stays in German-speaking countries, are REQUIRED to take a placement test offered at the Department.
2. The Department reserves the right to place students in the language course appropriate to their level of language skill.

3. More detailed course descriptions and reading lists for the various courses are available from the instructor.

4. Courses that indicate "(E)" in the title are taught in English.

German Courses

GER100Y1 - Introduction to German

Hours: 96P

This is the language course to take if you have had no previous experience of the German language. The emphasis is on comprehension, speaking, reading, writing, vocabulary and basic grammar. This course can be counted towards all programs in German.

Note: Students with any previous knowledge of German are **REQUIRED** to take a placement test offered at the department.

Exclusion: Senior high school German or equivalent.

Note: Students with any previous knowledge of German are required to take a placement test offered at the department.

Breadth Requirements: Creative and Cultural Representations (1)

GER101H1 - Introduction to German b

Hours: 48P

This course is intended for students with some prior knowledge of German. It is equivalent to the Spring Term of GER100Y1. The emphasis is on comprehension, speaking, reading, writing, vocabulary and basic grammar.

Exclusion: Senior high school German or equivalent. GER100Y1.

Breadth Requirements: Creative and Cultural Representations (1)

GER150H1 - Introduction to German Culture (E)

Hours: 24L/12T

This course taught in English is intended for students who are unfamiliar with German culture. It examines historical, political and cultural developments in Germany from about 1871 to the present focusing on literary and non-literary texts. (Note: This course is required for the major and specialist program; it should be taken within the first two years.)

Breadth Requirements: Creative and Cultural Representations (1)

GER194H1 - Our Vampires, Ourselves (E)

Hours: 24S

Vampires are among the most fascinating figures of popular culture. Since Bram Stoker's *Dracula* (1897) – and, in fact, well before that – they have been haunting the human imagination in various shapes and forms. This course examines the figure of the vampire as a potent cultural metaphor in the German context and beyond, showing how every age embraces the vampires it needs and gets the vampires it deserves. The goal is to teach students to reflect critically and independently on issues of self and society and to develop a structured approach to critical thinking in general. All readings and class discussions will be in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

GER195H1 - Cities, Real and Imagined (E)

Hours: 24S

Cities have been described as places of desire and places of fear. They pulse with life, bringing together people from different class, gender, and ethnic backgrounds, simultaneously giving rise to a sense of freedom and oppression, a sense of belonging and alienation. This course will explore the city as a physical reality that shapes our lives, but is also a projection of our deepest imaginings. Through readings of philosophical and sociological texts by influential theorists of the city, we will consider various ancient and modern conceptions of urban space and subjectivity. Alongside these theoretical readings, we will also examine literary and filmic representations of the city as a space of desire, memory and power. All readings and class discussions are in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

GER196H1 - "Es war einmal auf Deutsch" - Learning German with Fairy Tales

Hours: 24S

Grimms' Fairy Tales – we all know and love them. But what do we *really* know? Which versions are we familiar with? Most likely not the ones by the Brothers Grimm. And certainly not in German! This course is a journey into the mythical German Schwarzwald, a place of wolves and witches, the realm of the fantastic. It is not a traditional language course, as we won't be cramming grammar and vocabulary, at least not excessively. Rather, we will learn German playfully by reading, analyzing and acting out original folk tales, their Romantic adaptations and modern retellings. In the process we will enrich our understanding of German language and culture. Please note that basic knowledge of German is required to participate in this course (i.e. at least one year of solid high school instruction). Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: One year of German instruction, or equivalent

Breadth Requirements: Creative and Cultural Representations (1)

GER198H1 - Technology and the Human in German Literature and Thought (E)

Hours: 24S

Technology has changed our lives, and scientific knowledge has enhanced human capacities. At the same time, though, this development is also experienced as a threat. Killing missiles, controlling 'Big Brothers,' and monstrous creatures are often considered the flip-side of technological advancement. This course asks: What is the relationship between technology and the "human"? Can there be progress of technology without a regress of humanity? Or is technology liberating us from the bonds of nature? We will discuss possible answers to these questions by looking at key texts in German literature, philosophy, and cultural history from the eighteenth century to Post-Modernity. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

GER199H1 - The Pleasure of Reading: Reading as Self-Emancipation in the German Literary Tradition (E)

Hours: 24S

In this course we read some of the most enjoyable plots and stories in German Literature and examine how the pleasure of reading sets readers free to re-imagine themselves and the world released from everyday pressures and the repressive weight of the status quo. Readings are all in English translation and include texts by Lessing, Goethe, Schiller, Kleist, Keller, Heine and Kafka. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

GER200Y1 - Intermediate German 1

Hours: 96P

This course continues the work done in [GER100Y1](#) / [GER101H1](#). It further expands on basic grammar and vocabulary, practice in comprehension, composition, and conversation.

Prerequisite: [GER100Y1](#)/ [GER101H1](#) or German placement test, Senior high school German or equivalent

Breadth Requirements: Creative and Cultural Representations (1)

GER201H1 - Intermediate German 1b

Hours: 48P

This course is equivalent to the Spring Term of [GER200Y1](#). It further expands on basic grammar and vocabulary, practice in comprehension, composition, and conversation. The Department reserves the right to place students in the appropriate language course on the 200- and 300 levels.

Prerequisite: German placement test

Exclusion: [GER200Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

GER205H1 - Masterpieces of German Literature 1

Hours: 36S

This course offers a transition from the language courses to the topic courses on the 300-level. It introduces students to German literature and provides them with working methods and analytical tools relevant for the study of German literary texts in the original German.

Note: This course is required for the major and specialist program

Prerequisite: [GER100Y1](#)

Corequisite: [GER200Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

GER210H1 - Poets and Power: Art, Media, and the Nazis (E)

Previous Course Number: GER197H1

Hours: 12T/24S

To the surprise of many, aesthetics played a vital role in the lives of Nazis and their politics. Hitler was a failed painter, Goebbels a poet, and Göring a collector; other high-ranking officials likewise fashioned themselves as artists. In this course, we will examine how these personal predilections transformed into an aesthetic vision of politics: through the fascist cult of physical perfection, the theatrics of political media, anti-Semitic entertainment films, and the eroticization of the Führer-figure. We will investigate this marriage of beauty and violence and ask how it helped to make the “Third Reich” attractive to many Germans. Beginning with the great avant-garde experiments of the pre-Nazi era, we will analyze why Hitler banned this “degenerate” art – even though he adopted some of its style in propaganda posters. We will continue by examining the Nazis’ glorification of Greek and Roman images of beauty and their aesthetic justifications for genocide. Throughout the course, we will consider some of the high points of German culture – in philosophy, music, and literature – and ask: How did a society that produced such works of genius also create Nazism and the Holocaust? Is high culture necessarily a bulwark against barbarism? And do we have similarly seductive combinations of culture and politics in our world today? How might we notice such allures yet still mark their dangers, maintain our critical distance, and resist?

Recommended Preparation: 1.0 FCE in GER courses.

Breadth Requirements: Creative and Cultural Representations (1)

GER220H1 - Great Works of German Literature in Translation (E)

Hours: 24L/12T

This course taught in English is an introduction to major authors of German literature, such as J.W. Goethe, F. Kafka, T. Mann, G. Grass, C. Wolf and E.S. Özdamar, focusing on their key works and introducing central topics.

Breadth Requirements: Creative and Cultural Representations (1)

GER251H1 - German and European Cinema (E)

Hours: 24P/24S

This course examines German cinema against the backdrop of European film history. European films share common reference points anchored in the cataclysms of two world wars, and have also negotiated analogous postwar transformations in family life, urbanization, the regional and the national, cultural identity, labour relations, post-socialist societies, and state security. A comparative approach enables examination of what binds German cinema to European cinema – shared histories and political concerns--as well as what is nationally unique and distinctive. By matching select films with readings from social theory, cultural studies, and film studies, we will compare and contrast these socio-historical concerns while also attending to the medium specificities of film style, aesthetics, and narrative form.

Breadth Requirements: Creative and Cultural Representations (1)

GER261H1 - Elementary Yiddish 1

Previous Course Number: GER260Y1

Hours: 36L

This course introduces Yiddish language, literature, music, theater, and cinema through interactive multimedia seminars, designed to build proficiency in reading, writing and comprehending. No prior knowledge of Yiddish is required.

Exclusion: [GER260Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

GER262H1 - Elementary Yiddish 2

Previous Course Number: GER260Y1

Hours: 36L

This course is the continuation of [GER261H1](#), Elementary Yiddish 1. While learning the language the course will also introduce students to Yiddish literature & culture, providing

a greater understanding of the historical and contemporary, religious and secular communities that speak and spoke this language.

Prerequisite: GER261H1

Exclusion: GER260Y1

Breadth Requirements: Creative and Cultural Representations (1)

GER270H1 - Money and Economy in German Literature and Culture (E)

Hours: 24L/12T

In this course, we examine key literary, philosophical, and cultural texts, in order to understand how modern culture approaches problems such as property, debt, and exchange value.

Breadth Requirements: Creative and Cultural Representations (1)

GER272H1 - Introduction to Business German

Hours: 36P

This course introduces students to basic concepts and vocabulary necessary for the German business context. All the language skills (reading, writing, listening, and speaking) will be practiced in appropriate business contexts.

Corequisite: GER200Y1

Breadth Requirements: Creative and Cultural Representations (1)

GER275H1 - Marx, Nietzsche, Freud (E)

Hours: 24L/12T

This is an introductory course to the thought of Karl Marx, Friedrich Nietzsche, and Sigmund Freud and their pioneering contributions to the understanding of the individual and society in modernity. Readings include selections from writings of the early Marx, the Communist Manifesto, and Capital, Nietzsche's critique of culture, academe, and nationalism, and Freud's theory of culture, his views on the psychopathology of everyday life, on the meaning of dreams, symptoms, the return of the repressed, and what it might mean to live in a free society.

Breadth Requirements: Creative and Cultural Representations (1)

GER290H1 - Global Issues - German Contexts (E)

Hours: 24S

The movement of cultural products, material goods, capital, people, ideas, and information across national borders has resulted in a new quality of global interdependency. The course explores the contemporary character of globalization patterns and problems as they bear on German-speaking contexts. Readings in globalization history and theory.

Recommended Preparation: 2.0 credits of German language instruction in consultation with department

Breadth Requirements: Society and its Institutions (3)

GER299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

GER300Y1 - Intermediate German 2

Hours: 96P

Continuing the work done in GER100Y1 and GER200Y1, this course offers German at the intermediate level focusing on extension of vocabulary, specific problems of grammar, essay-writing, reading and conversation. The Department reserves the right to place students in the appropriate course in the series GER200Y1 and GER300Y1.

Prerequisite: GER200Y1/ GER201H1 or German placement test

Breadth Requirements: Creative and Cultural Representations (1)

GER301H1 - Intermediate German 2b

Hours: 48P

This course is equivalent to the Spring Term of GER300Y1. It further expands on basic grammar and vocabulary, practice in comprehension, composition, and conversation at the intermediate level. The Department reserves the right to place students in the appropriate language course on the 200- and 300 levels.

Prerequisite: German placement test

Exclusion: GER300Y1

Breadth Requirements: Creative and Cultural Representations (1)

GER305H1 - Masterpieces of German Literature 2

Hours: 36S

Building on the work of GER205H1, this course offers a survey of German literature and culture from the eighteenth to the twentieth century. Within a chronological framework, students read and analyze excerpts from representative works of major German writers. (Note: This course is required for the major and specialist program, and should be taken concurrently with GER300Y1.)

Prerequisite: GER205H1

Breadth Requirements: Creative and Cultural Representations (1)

GER310H1 - Contemporary German Culture and Media

Hours: 24S

This course focuses on contemporary German culture as expressed through a variety of media. It approaches Germany and Germany's position within Europe and the world mainly (but not exclusively) through non-literary texts.

Prerequisite: GER200Y1

Breadth Requirements: Creative and Cultural Representations (1)

GER320H1 - Age of Goethe: Revolution and Romanticism

Hours: 24S

Goethe and his contemporaries saw themselves faced with a rapidly changing world. This course examines the innovative literary experiments they developed in response to these changing times.

Prerequisite: GER205H1

Breadth Requirements: Creative and Cultural Representations (1)

GER321H1 - Literary Realism in the Industrial Age

Hours: 24S

This course focuses on German authors of the nineteenth century. Literary, political and philosophical texts are analyzed as a discussion of political uprisings, the industrial revolution and the emergence of German nationalism.

Prerequisite: GER205H1

Breadth Requirements: Creative and Cultural Representations (1)

GER322H1 - Kafka's World

Hours: 24S

Franz Kafka's texts are read in the literary, historical, and philosophical context of fin-de-siècle Prague and central Europe.

Prerequisite: GER205H1

Breadth Requirements: Creative and Cultural Representations (1)

GER323H1 - Weimar: Sex and Politics in the Roaring Twenties

Hours: 24S

Focusing roughly on the period from 1918 to 1945, this course examines literary and artistic movements like Dada, Bauhaus, the Golden Age in German film in the decades between World War I and Nazism.

Prerequisite: GER205H1

Breadth Requirements: Creative and Cultural Representations (1)

GER326H1 - Writing Memory: Post 1945

Hours: 24S

An examination of post-World War II German literature and culture from Zero Hour through to present-day debates about the Holocaust and its memorialization within a German context.

Prerequisite: GER205H1

Breadth Requirements: Creative and Cultural Representations (1)

GER332H1 - Deviance - Madness - Outsiders

Hours: 24S

An analysis of the artistic confrontation with deviance, madness, and outsiders. The course covers expressions of this confrontation in a variety of genres.

Prerequisite: GER205H1

Breadth Requirements: Creative and Cultural Representations (1)

GER334H1 - Post-Migrant Germany

Previous Course Number: GER423H1

Hours: 24S

This course investigates contemporary German culture by paying attention to its other or alternate voices and perspectives, i.e. those not usually prevalent in mainstream cultural and sociopolitical discourses.

Prerequisite: GER205H1

Exclusion: GER423H1

Breadth Requirements: Creative and Cultural Representations (1)

GER336H1 - Berlin Between East and West

Hours: 24S

This course offers an exploration of the cultural developments of one of the most exciting capitals of the world, from the Bismarckian era to German reunification and beyond.

Prerequisite: GER205H1

Breadth Requirements: Creative and Cultural Representations (1)

GER340H1 - German Theater Production

Hours: 48S

The course offers close reading, rehearsing and staging of a play. Students will become familiar with the different steps of a theater production, be introduced to basic acting and staging techniques and get acquainted to leading theories of theater.

Prerequisite: GER200Y1

Breadth Requirements: Creative and Cultural Representations (1)

GER350H1 - German Visual Cultures

Hours: 24P/24S

This course presents students with a survey of the history and development of the German cinema. It examines major trends of German cinematography focusing on thematic and formal aspects.

Prerequisite: GER205H1

Breadth Requirements: Creative and Cultural Representations (1)

GER354Y0 - Special Topics Summer Course in Berlin (E)

The topics of this course taught in English and open to students from other disciplines vary from year to year. Interested students can address questions to Woodsworth College.

Recommended Preparation: 100-level HIS/POL/GER course/International or European Studies

Breadth Requirements: Creative and Cultural Representations (1)

GER355Y0 - Summer Course in Berlin

Students who wish to petition the department for credit toward a specialist or major program in German will be required to do part of their work in German. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

GER360H1 - Intermediate Yiddish

Hours: 36P

The course conducted in Yiddish offers a review of basic grammar, stylistics, study of short literary texts.

Prerequisite: GER260Y1

Exclusion: GER463Y1

Breadth Requirements: Creative and Cultural Representations (1)

JGJ360H1 - Holocaust in Literature (E)

Hours: 24S

This course examines literary works written in different languages, in ghettos and concentration camps during the Holocaust, as well as those reflecting on the genocide in its aftermath. We focus on literature as a means of engaging with the unimaginable and on the cross analysis of eye-witness and memory writing.

Prerequisite: Completion of 4.0 credits

Exclusion: CJS220H1, GER367H1

Breadth Requirements: Creative and Cultural Representations (1)

GER361H1 - Yiddish Literature in Translation (E)

Hours: 24S

An overview of the major figures and tendencies in modern Yiddish literature and culture from the beginning of the 19th century to the present. Readings (in English) of modern Yiddish prose, poetry, drama and cinema.

Breadth Requirements: Creative and Cultural Representations (1)

GER367H1 - Topics in Yiddish or German Jewish Literature and Culture

Hours: 24S

Topics in modern Yiddish or German Jewish literature and culture from the beginning of the 19th century to the present, featuring a selection of readings of modern Yiddish prose, poetry, drama and cinema. Taught in English and open to students across disciplines.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

GER370H1 - German Business Culture

Hours: 36P

This course provides students with a working knowledge of German business culture that allows them to navigate the German workplace. The main focus is to deepen students' knowledge of business concepts.

Note: This course is required for the minor program in Business German

Prerequisite: GER272H1/ GER200Y1/ GER201H1

Breadth Requirements: Creative and Cultural Representations (1)

GER372H1 - Navigating German Work Environments

Hours: 36P

This course offers an intensive development of the linguistic skills needed in the context of business transactions and management in German-speaking countries. Through materials from various sources, students develop oral and written skills for competence in German business communication as well as cross-cultural awareness.

Prerequisite: GER370H1

Breadth Requirements: Creative and Cultural Representations (1)

GER391H1 - iPRAKTIKUM Experiential Learning and Internationalization Internship

Hours: 24P

The course provides curricular support for a variety of work and community-engaged, experiential learning placements in the GTA and in German-speaking countries. The placements are designed to deepen linguistic, cultural, and analytical skills acquired in the classroom in work-related environments, create an awareness of the translatability of academic knowledge to other contexts, promote global competency, and foster links to the community. The number of weekly hours spent in the field, the scope of learning objectives, and the nature of reflective activities are determined on an individual basis in consultation with the host institution, the German Department, and other units in which the student is pursuing a program degree (as required). In addition to successfully achieving the formulated learning goals, students must complete assignments such as eJournals and research papers as well as participate in peer-to-peer reporting and post-placement interviews.

Prerequisite: GER100Y1 and GER200Y1 or consent of department (equivalent proficiency level B1)

Recommended Preparation: 3.0 credits in GER courses
Breadth Requirements: Society and its Institutions (3)

GER398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

GER398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

GER399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

GER400H1 - Advanced German 1

Hours: 48P

This is a course for advanced learners of German reviewing complex features of the language and introducing them to aspects of German stylistics. The emphasis lies on oral and written communication.

Prerequisite: GER300Y1/ GER301H1

Breadth Requirements: Creative and Cultural Representations (1)

GER401H1 - Advanced German 2

Hours: 48P

This is a course for advanced learners of German reviewing complex features of the language and introducing them to aspects of German stylistics. The emphasis lies on oral and written communication.

Prerequisite: GER400H1

Breadth Requirements: Creative and Cultural Representations (1)

GER410H1 - Topics in German Intellectual History (E)

Hours: 24S

This course taught in English offers an examination of key moments and themes in German intellectual history from the Enlightenment to the present.

Prerequisite: Advanced status: permission of the department

Breadth Requirements: Thought, Belief and Behaviour (2)

GER426H1 - Medieval Language and Culture

Hours: 36S

This course offers an introduction to the language, literature and culture of Medieval Germany. The reading and translation of exemplary medieval German texts will introduce students to Middle High German and provide an insight into epochal concepts like courtly love and chivalry as well as courtly and monastic designs of identity.

Prerequisite: GER300Y1, GER205H1

Breadth Requirements: Creative and Cultural Representations (1)

GER430H1 - Topics in German Literature and Culture

Hours: 24S

An open course which explores specific aspects of German literature and culture.

Prerequisite: GER305H1

Breadth Requirements: Creative and Cultural Representations (1)

GER431H1 - Topics in Germanic Studies

Hours: 24S

An open course which explores specific aspects of Germanic Studies.

Prerequisite: GER305H1

Breadth Requirements: Creative and Cultural Representations (1)

GER460H1 - Advanced Yiddish

Previous Course Number: GER462H1

Hours: 36P

This course conducted entirely in Yiddish focuses on advanced reading, writing, vocabulary and conversation, the study of poetry, short fiction, and memoir literature by leading authors. Selected advanced grammatical topics are presented in conjunction with the study of texts.

Prerequisite: GER360H1

Exclusion: GER462H1

Breadth Requirements: Creative and Cultural Representations (1)

GER463Y1 - Yiddish Language for German Speakers

Hours: 48P

The course is designed as an intensive Yiddish language training. The goal is to teach German speakers to read, write and speak in Yiddish. The curriculum relies on the German language skills of the students, and focuses on differences between Yiddish and German grammar and vocabulary. Upon the completion of the course, students should be able to read Yiddish literary texts with a minimal use of dictionary.

Note: Graduate students can take the course in preparation for their Yiddish competency test.

Prerequisite: 3.0 credits in German language or fluency in German language

Exclusion: GER260Y1, GER360H1, GER462H1

Breadth Requirements: Creative and Cultural Representations (1)

GER490H1 - Independent Study

Hours: 24S

A reading & research project in Germanic literature and/or culture involving a substantive research component. Not eligible for CR/NCR option.

Prerequisite: Advanced status: permission of the department. Note: permission needs to be obtained by May 1st for the Fall Term and by Nov. 1st for the Spring Term

GER491Y1 - Individual Studies

Hours: 48S

A scholarly project chosen by the student and supervised by a member of the staff. The form of the project and the manner of its execution are determined in consultation with the supervisor. Not eligible for CR/NCR option.

Prerequisite: Advanced status: permission of the department. Note: project proposals need to be submitted by June 1st

History

Faculty List

Professors Emeriti

S. Aster, MA, PhD, FRHS
 C.C. Berger, MA, PhD, FRSC
 P. Blanchard, BA, PhD
 R. Bothwell, MA, PhD, FRSC (T)
 W.J. Callahan, MA, PhD, FRHS
 W. Dowler, MA, PhD
 H.L. Dyck, MA, PhD
 M. Eksteins, B Phil, D Phil
 J.M. Estes, MA, PhD
 M.G. Finlayson, MA, PhD
 T. Fujitani, MA, PhD
 D. Gabaccia, MA, PhD (University of Toronto Scarborough)
 W.A. Goffart, AM, PhD, FRHS, FRSC
 A. Greer, MA, PhD
 P.F. Grendler, MA, PhD
 F. Iacovetta, MA, PhD (University of Toronto Scarborough)
 J.N. Ingham, MA, PhD
 M. Israel, MA, PhD
 R.E. Johnson, BA, PhD
 J. Kivimae, BA, PhD
 M.A. Klein, MA, PhD
 T. Lahusen, MA, PhD
 T.O. Lloyd, MA, D Phil
 L.S. MacDowell, MSc (Econ), PhD
 A.C. Murray, MA, PhD
 J. Pearl, PhD
 D.J. Penslar, MA, C Phil, PhD, FRSC
 R.W. Pruessen, MA, PhD
 D.L. Raby, BA, PhD
 I. Radforth, MA, PhD
 J. Retallack, BA, D Phil, FRSC
 I. Robertson, MA, PhD
 A. Rossos, MA, PhD
 P.F.W. Rutherford, MA, PhD
 D. Smyth, BA, PhD, FRHS (T)
 S. Van Kirk, MA, PhD
 L. Viola, MA, PhD, FRSC
 N.K. Wagle, MA, PhD
 M. Wayne, MA, PhD

Associate Professors Emeriti

L.J. Abrey, MA, MPhil, PhD
 A.D. Hood, MA, PhD
 J. Noel, MA, PhD (University of Toronto Mississauga)
 A.I. Silver, PhD
 B. Todd, MA, D Phil
 W. Wark, MA, PhD

Professor and Chair of the Department
 TBA

Associate Professor and Associate Chair (Graduate Studies)

M. J. Newton, BA, D Phil

Associate Professor and Associate Chair (Undergraduate Studies)

H. Bohaker, MA, PhD

Professor and Deputy Chair

TBA

Professors

D. Anastakis, MA, PhD
 K.R. Bartlett, MA, PhD (V)
 D. Bender, MA, PhD (University of Toronto Scarborough)
 D. Bergen, MA, PhD
 E. Brown, MA, M Phil, PhD (University of Toronto Mississauga)
 A. Cooper, BA, MA, PhD (University of Toronto Scarborough)
 A. Emon, J.S.D., PhD
 N. Everett, PhD
 M. Gervers, MA, PhD (University of Toronto Scarborough)
 R. Halpern, MA, PhD (University of Toronto Scarborough)
 J. Hanssen, D Phil (University of Toronto Mississauga)
 E.T. Jennings, MA, PhD
 A. Kasekamp, MA, PhD
 C. Keil, MA, PhD (I)
 P.R. Magocsi, MA, PhD, FRSC
 M.G. McGowan, MA, PhD (SM)
 M.D. Meyerson, MA, PhD
 S. Mills, MA, PhD
 J. Mori, BA, D Phil
 M. Murphy, BA, PhD
 S. Penfold, MA, PhD
 J. Pilcher, MA, PhD (University of Toronto Scarborough)
 N. Rothman, MA, PhD (University of Toronto Scarborough)
 E.L. Shorter, MA, PhD, FRSC
 G. Silano, MA, PhD (SM)
 A. Smith, MA, PhD
 M. Tavakoli-Targhi, MA, PhD (University of Toronto Mississauga)
 N. Terpstra, MA, PhD, FRSC
 A. Verskin, BA, MA, PhD
 D.A. Wilson, MA, PhD, FRHS (SM), FRSC
 P. Wrobel, MA, PhD

Associate Professors

L. Bertram, MA PhD
 R. Birla, M Phil, PhD
 H. Bohaker, MA, PhD
 L. Chen, MA, JD, PhD (University of Toronto)

Scarborough)
 C. Chin, MA, PhD
 I. Cochelin, MA, PhD
 P. Cohen, PhD
 K. Coleman, PhD (University of Toronto Mississauga)
 B. Gettler, MA, PhD (University of Toronto Mississauga)
 P. Hastings, MA, PhD (University of Toronto Scarborough)
 S. Hawkins, MA, PhD
 S. Hill, MA, PhD
 J. Jenkins, MA, PhD
 M. Kasturi, MA, M Phil, PhD (University of Toronto Mississauga)
 R. Kazal, MA, PhD (University of Toronto Scarborough)
 T. Lam, PhD (University of Toronto Mississauga)
 L. Loeb, M MST, PhD
 J. MacArthur, MA, PhD (University of Toronto Mississauga)
 L. Mar, MA, PhD
 N. Musisi, MA, PhD (N)
 W. Nelson, MA, PhD (University of Toronto Scarborough)
 M.J. Newton, BA, D Phil
 B. Raman, PhD (University of Toronto Scarborough)
 S. Rockel, MA, PhD (University of Toronto Scarborough)
 T. Sayle, MA, PhD
 J. Sharma, MA, MPhil, PhD (University of Toronto Scarborough)
 N. Tran, BA, PhD
 L. van Isschot, MA, PhD
 S. Virani, MA, PhD (University of Toronto Mississauga)
 Y. Wang, MA, PhD
 R. Wittmann, MA, PhD (University of Toronto Mississauga)
 R. Woods, MA, PhD

Assistant Professors

S. Aidid, BA, MA, PhD
 F. Aladejebi, BA, MA, PhD
 E. Elhalaby, BA, PhD (University of Toronto Scarborough)
 C. Ewing, MA, PhD
 A. Grewal, MA, PhD (University of Toronto Scarborough)
 W.C. Johnson, MA, PhD
 M. Mishler, MA, PhD
 A. Nair, BA, MA, PhD (University of Toronto Scarborough)
 S. Sweeney, MA, PhD
 L. Topouzova, BA, MA, PhD (University of Toronto Mississauga)

Introduction

History is an active, future-shaping discipline and a contested area in politics. Historians study the past to understand it on its own terms, to gain insight into how our world has developed, and in order to influence the present. Authoritarian regimes aim to control the work that historians do - why is that? Why is knowledge of the past so feared by those who seek to have power over the lives of others? What can the experience of the past teach us about the challenges humanity faces now?

History students gain both a broad overview of the contours of history and in-depth knowledge of one or more specific regions, time periods, or thematic specializations. They come to understand how social processes, political ideologies, economic trends, and environmental changes have intersected with individual and collective human actions to shape historical change and, ultimately, the world we live in today. Our diverse, award-winning faculty teach students the skills and methods of historical research, how to make rigorous arguments, and how to speak and write effectively. History students learn how history is written, including the use and interpretation of evidence, and the choices involved in various theoretical and analytical frameworks.

We offer Specialist, Major and Minor Programs of Study, as well as a Focus in Law and History for Majors and Specialists which introduces students to the study of legal history and is an excellent foundation for law school. Majors and Specialists can also apply for the Arts & Science Internship Program in History (ASIP). History graduates put their training directly to use in such fields as law, politics, public policy, business, government, education, the GLAM sector (galleries, libraries, archives and museums), filmmaking, journalism, international relations, urban planning, content creation and many others.

Curriculum

The History curriculum is designed to allow you a great deal of flexibility to follow your own interests. However, breadth requirements (described in program requirements below) ensure that you acquire an understanding of the more distant as well as more recent past, and that you study the histories of different peoples around the globe.

The 100-level courses are thematically-based and introduce students to the craft and tools of historical research and writing. The 200-level courses are broad chronological surveys of countries, regions, or time periods. They are open to first-year students and have no prerequisites. The 300-level courses enable students to pursue topics in greater depth and methodological sophistication. They are not open to first-year students and frequently have prerequisites or recommended preparation that will prepare you to be successful. The 400-level courses represent the culmination of an

undergraduate's study of history. They are taught by faculty as small-group seminars in which students draw upon the skills they have developed through the course of their History program in research, analysis, and oral and written presentation. Students are responsible for ensuring that they have the prerequisites or recommended background preparation for upper-level courses.

Arts & Science Internship Program (ASIP)

The new Arts & Science Internship Program (ASIP) stream is available to students who are entering Year 2 or Year 3 of study and are enrolled in the History Specialist and History Major. Enrolment is limited and requires a supplemental application. Students enrolled in the ASIP stream will be required to complete mandatory Professional Development programming plus a minimum of 12 and a maximum of 20 months (Year-2 entry) or a minimum of 12 and a maximum of 16 months (Year-3 entry) of paid, full-time work experience. The time to degree completion for students enrolled in ASIP will normally be 5 years. There is an additional cost to participate in the ASIP stream. Students will typically be admitted to the ASIP stream for the Fall term of Year 2 of study, however, in exceptional circumstances students, including transfer students, who enrolled in an eligible program in the Summer after Year 2 can be admitted to the ASIP stream for the Fall of Year 3. Acceptance into an ASIP stream in Year 3 is dependent on space and requires approval of the student's academic unit and the Faculty of Arts & Science Experiential Learning & Outreach Support (ELOS) Office. Please refer to the ASIP eligibility page for further details.

Website: www.history.utoronto.ca

Associate Chair (Undergraduate): Associate Professor Heidi Bohaker. Email: history.ugchair@utoronto.ca

Undergraduate Administrator and Student Advisor: Vicki Norton, Room 2074, Sidney Smith Hall. Email: history.ugadvisor@utoronto.ca

Follow us on social media - Instagram: [@historyutoronto](https://www.instagram.com/historyutoronto), X (formerly Twitter): [@History_UofT](https://twitter.com/History_UofT).

Our vibrant History Students' Association has a mentorship program for new students, publishes a journal and runs a conference for undergraduates, as well as hosting engaging social activities throughout the year. The HSA also participates in departmental governance. Follow them on Instagram to learn more: [@uofthsa](https://www.instagram.com/uofthsa). You can also contact them by email history.hsa@utoronto.ca.

History Programs

History Specialist (Arts Program) - ASSPE0652

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

2.0 HIS credits to be made up in one of the following ways:

Option 1:

- 1.0 credit at the 100-level excluding the following HIS First-Year Foundations (FYF) courses: [HIS190H1](#), [HIS191H1](#), [HIS192H1](#), [HIS193H1](#), [HIS194H1](#), [HIS195H1](#), [HIS196H1](#), [HIS197H1](#), [HIS198H1](#), [HIS199H1](#)
- 1.0 credit at the 200+ level

Option 2:

- 0.5 credit from [HIS111H1](#), [HIS112H1](#) or the following HIS First-Year Foundations (FYF) courses: [HIS190H1](#), [HIS191H1](#), [HIS192H1](#), [HIS193H1](#), [HIS194H1](#), [HIS195H1](#), [HIS196H1](#), [HIS197H1](#), [HIS198H1](#), [HIS199H1](#)
- 1.5 credits at the 200+ level

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 70% in each course will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the History Specialist in the Summer [after](#) Year 2.

Note: Some courses may contribute to both the Geographical and Temporal requirements. Some Full (1.0 credit) courses may satisfy 0.5 credit of the Temporal requirement. Refer to the Department website for a full list of courses that meet these separate requirements.

Completion Requirements:

The Specialist program gives students in-depth training in historical research, analysis, and writing for future professional use or graduate study. To tailor the program to your needs, in your third year you have a choice between two pathways: a higher level course-work option in order to further the development of excellent skills via a wider variety of courses or a thesis option where you will be able to do the same while also concentrating on a specific research topic.

A total of 10.0 credits, meeting the following requirements:

Only 1.0 credit at the 100-level can be used to fulfill program requirements.

Higher Years: Additional HIS courses to a total of 10.0 credits overall, meeting the following requirements:

1. Geographic Distribution (200+ level):

- a) 2.0 credits in Africa/Asia/Middle East with at least one 0.5 credit in 2 of the 3 areas. This requirement cannot be met by more than 1.0 credit from any area.
- b) 1.0 credit in Canada/US/Latin America/The Caribbean
- c) 1.0 credit in Europe

2. Temporal Requirement: 1.0 credit in Pre-1800 history course(s) listed below.

Note 2: HIS courses listed with (.50) indicate that they fulfill half of the Temporal Requirement.

3. Levels: At least 5.0 credits at the 300+ level, including 1.5 credits at the 400-level to be fulfilled in one of the following ways:

Pathways:

a) Thesis Option: HIS475H1 and HIS476H1 taken in that order, OR HIS491Y1 (see Note 3)

b) Coursework option: 1.0 credit of Senior (300 or 400-level) Methodology course(s), listed below

Note 3: Students interested in the Thesis Option should contact the Undergraduate Chair for advice about the pathway, thesis topics, and the selection of an appropriate faculty advisor.

Courses in other departments:

a) Students may take up to 1.0 credit from the Equivalent Courses list below. These courses may not be used to fulfill the 100-level, Geographic, or Temporal requirements.

Geographic Area a): Africa, Asia, Middle East

(Sub-group: Africa)

AFR290H1, AFR370H1, HIS295Y1, HIS297Y1, HIS319H1, HIS322H1, HIS342H1, HIS352H1, HIS383Y1, HIS394H1, HIS450H1, HIS481H1, HIS483H1, HIS486H1

(Sub-group: Asia)

HIS280Y1, HIS282Y1, HIS283Y1, HIS315H1, HIS316H1, HIS326H1, HIS328H1, HIS333H1, HIS346H1, HIS379H1, HIS382H1, JHA384H1, HIS385H1, HIS385Y0, JHA394H1, HIS400H1, HIS467H1, HIS470H1, HIS473H1, HIS480H1, HIS485H1, HIS494H1

(Sub-group: Middle East)

HIS208Y1 (.50), HIS304H1, JHM307H1, HIS339H1, HIS370H1, JMH385H1, NMC372H1, NMC386H1

Geographic Area b): Canada/The United States/Latin America/The Caribbean

(Sub-group: Canada)

HIS264H1, HIS265Y1, HIS266H1, HIS267H1, HIS300H1, HIS310H1, HIS311H1, HIS312H1, HIS314H1, HIS318H1, HIS335H1, HIS356H1, HIS358H1, HIS360H1, HIS363H1, HIS365H1, JIH366H1, HIS366H1, HIS369H1, JIH369H1, HIS371H1, HIS402H1, HIS405Y1, HIS410H1, HIS417H1, HIS418H1, HIS419H1, HIS429H1, HIS435H1, JIH460H1, HIS466H1, HIS468H1, HIS469H1, HIS472H1, HIS484H1, HIS492H1

(Sub-group: The United States)

HIS221H1, HIS222H1, HIS271Y1, HIS300H1, HIS310H1, HIS362H1, HIS365H1, HIS366H1, JIH366H1, HIS369H1, JIH369H1, HIS372H1, HIS376H1, HIS377H1, HIS378H1, HIS396H1, HIS401H1, HIS404H1, HIS411H1, JIH460H1, HIS465H1, HIS473H1, HIS479H1, HIS484H1

(Sub-group: Latin America/The Caribbean)

HIS230H1, HIS231H1, HIS291H1, HIS292H1, JHN323H1, HIS359H1, HIS390H1, HIS397H1, HIS474H1

Geographic Area c): Europe

(Sub-group: Britain)

HIS302H1, HIS332H1, HIS324H1, HIS337H1, HIS347H1,
HIS349H1, HIS350H1, HIS368H1, HIS422H1, HIS477H1,
HIS482H1

(Sub-group: Western Europe)

HIS220Y1, HIS240H1, HIS241H1, HIS242H1, HIS243H1,
HIS244H1, HIS245H1, HIS303H1, HIS308H1, HIS309H1,
HIS317H1, HIS320H1, HIS321H1, HIS323H1, HIS327H1,
HIS329H1, HIS330H1, HIS334H1, HIS336H1, HIS338H1,
HIS341Y1, HIS343H1, HIS345H1, HIS350H1, HIS355H1,
HIS357Y0, HIS357Y1, HIS361H1, HIS373H1, HIS375H1,
HIS386H1, HIS387H1, HIS388H1, HIS403H1, HIS407H1,
HIS409H1, HIS411H1, HIS414H1, HIS415Y1, HIS416H1,
HIS423H1, HIS424H1, HIS425H1, HIS426H1, HIS427H1,
HIS428H1, HIS430H1, HIS432H1, HIS437H1, HIS438H1,
HIS440H1, HIS443H1, HIS444H1, HIS445H1, HIS457H1,
HIS467H1, HIS480H1, HIS493H1

(Sub-group: Eastern Europe and Russia)

HIS240H1, HIS250Y1, HIS251Y1, JSH300H1, HIS306H1,
HIS325H1, HIS331H1, HIS340H1, HIS350H1, HIS351H1,
HIS351Y1, HIS353Y1, HIS364H1, HIS367Y0, HIS384H1,
HIS386H1, HIS420H1, HIS433H1, HIS434Y1, HIS436H1,
HIS439H1, HIS442H1, HIS449Y1, HIS451H1, HIS459H1,
HIS460H1, HIS461H1, HIS490H1

Temporal Requirement

HIS100Y1 (.50), HIS101Y1 (.50), HIS102Y1 (.50),
HIS103Y1 (.50), HIS106Y1, HIS107Y1 (.50), HIS108Y1
(.50), HIS109Y1 (.50), HIS110Y1 (.50), HIS208Y1 (.50),
HIS220Y1, HIS230H1, HIS243H1, HIS244H1, HIS250Y1
(.50), HIS251Y1 (.50), HIS265Y1 (.50), HIS271Y1 (.50),
HIS280Y1 (.50), HIS283Y (.50), HIS291H1, HIS293H1,
HIS295Y1 (.50), HIS297Y1 (.50), HIS303H1, HIS308H1,
HIS309H1, HIS320H1, HIS321H1, HIS323H1, HIS327H1,
HIS329H1, HIS332H1, HIS333H1, HIS336H1, HIS337H1,
HIS352H1, HIS353Y1 (.50), HIS355H1, HIS357Y1,
HIS357Y0, HIS362H1, HIS368H1, JIH369H1, HIS373H1,
HIS375H1, HIS381H1, HIS382H1, HIS383Y1 (.50),
HIS403H1, HIS414H1, HIS422H1, HIS424H1, HIS426H1,
HIS427H1, HIS428H1, HIS432H1, HIS434Y1, HIS443H1,
HIS446H1, HIS457H1, HIS467H1, HIS492H1

Methodology Courses

HIS302H1, HIS312H1, HIS315H1, HIS335H1, HIS345H1,
HIS346H1, HIS351H1, HIS352H1, HIS355H1, HIS358H1,
HIS363H1, HIS381H1, HIS383Y1, HIS389H1*,
HIS393H1, HIS397H1, HIS401H1, HIS406H1*,
HIS417H1, HIS418H1, HIS419H1, HIS422H1, HIS423H1,
HIS435H1, HIS436H1, HIS437H1, HIS440H1, HIS443H1,
HIS446H1, HIS455Y1, HIS460H1, HIS465H1,
HIS466H1**, HIS467H1, HIS468H1, HIS470H1,
HIS475H1, HIS480H1, HIS483H1, HIS490H1,
HIS496H1*, JIH460H1, JSH300H1

* "Topics in History": Various topics each year. Please see the Arts & Science Timetable for current offerings. Course descriptions and prerequisites can be found on the department website.

** "Topics in Canadian History": Various topics each year. Please see the Arts & Science Timetable for current offerings. Course descriptions and prerequisites can be found on the department website.

Equivalent Courses

AFR290H1, AFR370H1, CDN230H1, CDN280H1,
CDN340H1, CDN390H1, CLT337H1, CLT377H1,
CLT378H1, CLT413H1, CLT416H1, CLT444H1,
EAS245H1, EAS246H1, EAS247H1, EAS271H1,
EAS285H1, EAS348H1, EAS364H1, EAS372H1,
EAS374H1, EAS459Y1, * EAS464H1, EAS473H1,
EAS475Y1, EAS484Y1, EUR200Y1, INS200H1,
INS201Y1, INS300Y1, INS352H1, JPI201H1, NMC275H1,
NMC278H1, NMC355H1, NMC372H1, NMC373H1,
NMC376H1, NMC378H1, NMC386H1, NMC475H1,
NMC477H1, NMC479H1, REN240Y1, REN348Y0,
REN441H1, TRN250Y1, WGS481H1

*course(s) no longer offered

Thematic Streams

Although thematic streams are not an official program requirement, you may find it enriching to follow a particular theme across different time periods or geographical divisions.

Colonialism, Post-Colonialism, Trans-Nationalism

HIS106Y1, HIS208Y1, HIS280Y1, HIS282Y1, HIS283Y1,
HIS291H1, HIS292H1, HIS303H1, HIS312H1, HIS314H1,
HIS326H1, HIS353Y1, HIS380H1, HIS416H1, HIS445H1,
HIS446H1, HIS467H1, HIS470H1, HIS480H1,
NMC278H1, NMC376H1

Indigenous History

HIS101Y1, HIS102Y1, HIS230H1, HIS264H1, HIS291H1,
HIS292H1, HIS359H1, HIS419H1, INS200H1, INS201Y1,
INS300Y1, INS352H1, JIH366H1, JIH369H1, JIH460H1

International Relations

HIS103Y1, HIS311H1, HIS343H1, HIS344H1, HIS401H1,
HIS405Y1, HIS451H1, HIS465H1

Medieval

HIS220Y1, HIS303H1, HIS320H1, HIS321H1, HIS323H1,
HIS403H1, HIS424H1, HIS427H1, HIS428H1, HIS432H1,
HIS438H1, NMC376H1

Women and Gender

HIS297Y1, HIS302H1, HIS323H1, HIS348H1, HIS363H1,
HIS383Y1, HIS406H1, HIS446H1, HIS465H1, HIS481H1

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Note: HIS262H1, Canada: A Short Story of Here, is designed for non-History students, this introductory survey fulfills the Society and Its Institutions breadth requirement. It cannot be counted towards a History program, program requirements or as a pre-requisite for upper-level History courses.

Focus in Law and History (Specialist) - ASFOC0652A

The Focus in Law and History gives students the critical skill-set to interrogate the 'force of law', not only in the sense of law as enforced, but also as a vehicle of cultural, social, and economic knowledge. Importantly, it will ask students to interrogate assumptions of what counts as law across time and space. At the core of this Focus to the Major are fundamental questions of both law and society: Who has law? What does (or should) it look like? Who decides? What sorts of critical histories can be written from and about legal archives that span time, space, and language tradition?

Enrolment Requirements:

Enrolment in the History Specialist is required.

Completion Requirements:

3.0 credits

1. Methodological Training Requirement: HIS268H1: Law and History.
2. Law and History Focus Enrichment: 2.5 credits from the following list, including at least 1.0 credit at the 300+ level.

HIS101Y1, HIS230H1, HIS231H1, HIS282Y1,
HIS283Y1, HIS303H1, HIS307H1, HIS308H1,
HIS332H1, HIS335H1, HIS357Y1, HIS375H1,
HIS379H1, HIS390H1, HIS391Y1, HIS397H1,
HIS419H1, HIS424H1, HIS438H1, HIS443H1,
HIS470H1, HIS493H1, JHN323H1

Some offerings of HIS389H1, HIS466H1 and HIS496H1 may also count towards this focus. Check with the department for current offerings.

Up to a 0.5 credit from non-HIS courses may be substituted for requirement 2, with permission of the

department. Substitutions will be reviewed based on a copy of the course syllabus.

History Major (Arts Program) - ASMAJ0652

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses

The following courses are required:

HIS credits to be made up in one of the following ways:

- 1.0 credit from HIS courses excluding the following HIS First-Year Foundations courses: HIS190H1, HIS191H1, HIS192H1, HIS193H1, HIS194H1, HIS195H1, HIS196H1, HIS197H1, HIS198H1, HIS199H1; or
- 0.5 credit from HIS111H1, HIS112H1 or the following HIS First-Year Foundations courses: HIS190H1, HIS191H1, HIS192H1, HIS193H1, HIS194H1, HIS195H1, HIS196H1, HIS197H1, HIS198H1, HIS199H1, and 0.5 HIS credit at the 200+ level

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the History Major in the Summer after Year 2.

Note: Some courses may contribute to both the Geographical and Temporal requirements. Some Full (1.0 credit) courses may satisfy a 0.5 credit of the Temporal requirement. Refer to the Department website for a full list of courses that meet these separate requirements.

Completion Requirements:

A total of 7.0 credits, meeting the following requirements:

Only 1.0 credit at the 100-level can be used to fulfill program requirements.

Higher Years: Additional HIS courses to a total of 7.0 credits, meeting the following requirements:

1. Geographic Distribution (200+ level):

a) 2.0 credits Africa/Asia/Middle East with at least a 0.5 credit in 2 of the 3 areas. This requirement cannot be met by more than 1.0 credit from any area.

b) 1.0 credit Canada/US/Latin America/The Caribbean

c) 1.0 credit Europe

2. Temporal Requirement: 1.0 credit in Pre-1800 history course(s) listed below.

Note 1: The HIS courses listed with (.50) indicate that they fulfill half of the Temporal Requirement.

3. At least 2.0 credits at the 300+ level, including one 0.5 credit at the 400-level.

Courses in other departments:

a) Students may take up to 1.0 credit from the Equivalent Courses list below. These courses may not be used to fulfill the 100-level, Geographic, or Temporal requirements.

Geographic Area a): Africa, Asia, Middle East

(Sub-group: Africa)

AFR290H1, AFR370H1, HIS295Y1, HIS297Y1,
HIS319H1, HIS322H1, HIS342H1, HIS352H1, HIS383Y1,
HIS394H1, HIS450H1, HIS481H1, HIS483H1, HIS486H1

(Sub-group: Asia)

HIS280Y1, HIS282Y1, HIS283Y1, HIS315H1, HIS316H1,
HIS326H1, HIS328H1, HIS333H1, HIS346H1, HIS379H1,
HIS382H1, JHA384H1, HIS385H1, HIS385Y0,
JHA394H1, HIS400H1, HIS467H1, HIS470H1, HIS473H1,
HIS480H1, HIS485H1, HIS494H1

(Sub-group: Middle East)

HIS208Y1(.50), HIS304H1, HIS339H1, HIS370H1,
JHM307H1, JMH385H1, NMC372H1, NMC386H1

Geographic Area b): Canada/The United States/Latin America/The Caribbean

(Sub-group: Canada)

HIS264H1, HIS265Y1, HIS266H1, HIS267H1, HIS300H1,
HIS310H1, HIS311H1, HIS312H1, HIS314H1, HIS318H1,
HIS335H1, HIS356H1, HIS358H1, HIS360H1, HIS363H1,
HIS365H1, HIS366H1, JIH366H1, HIS369H1, JIH369H1,
HIS371H1, HIS402H1, HIS405Y1, HIS410H1, HIS417H1,
HIS418H1, HIS419H1, HIS429H1, HIS435H1, JIH460H1,

HIS466H1, HIS468H1, HIS469H1, HIS472H1, HIS484H1,
HIS492H1

(Sub-group: The United States)

HIS221H1, HIS222H1, HIS271Y1, HIS300H1, HIS310H1,
HIS362H1, HIS365H1, HIS366H1, JIH366H1, HIS369H1,
JIH369H1, HIS372H1, HIS376H1, HIS377H1, HIS378H1,
HIS396H1, HIS401H1, HIS404H1, HIS411H1, JIH460H1,
HIS465H1, HIS473H1, HIS479H1, HIS484H1

(Sub-group: Latin America/The Caribbean)

HIS230H1, HIS231H1, HIS291H1, HIS292H1, JHN323H1,
HIS359H1, HIS390H1, HIS397H1, HIS474H1

Geographic Area c): Europe

(Sub-group: Britain)

HIS302H1, HIS324H1, HIS332H1, HIS337H1, HIS347H1,
HIS349H1, HIS350H1, HIS368H1, HIS422H1, HIS477H1,
HIS482H1

(Sub-group: Western Europe)

HIS220Y1, HIS240H1, HIS241H1, HIS242H1, HIS243H1,
HIS244H1, HIS245H1, HIS303H1, HIS308H1, HIS309H1,
HIS317H1, HIS320H1, HIS321H1, HIS323H1, HIS327H1,
HIS329H1, HIS330H1, HIS334H1, HIS336H1, HIS338H1,
HIS341Y1, HIS343H1, HIS345H1, HIS350H1, HIS355H1,
HIS357Y0, HIS357Y1, HIS361H1, HIS373H1, HIS375H1,
HIS386H1, HIS387H1, HIS388H1, HIS403H1, HIS407H1,
HIS409H1, HIS411H1, HIS414H1, HIS415Y1, HIS416H1,
HIS423H1, HIS424H1, HIS425H1, HIS426H1, HIS427H1,
HIS428H1, HIS430H1, HIS432H1, HIS437H1, HIS438H1,
HIS440H1, HIS443H1, HIS444H1, HIS445H1, HIS457H1,
HIS467H1, HIS480H1, HIS493H1

(Sub-group: Eastern Europe and Russia)

HIS240H1, HIS250Y1, HIS251Y1, JSH300H1, HIS306H1,
HIS325H1, HIS331H1, HIS340H1, HIS350H1, HIS351H1,
HIS351Y1, HIS353Y1, HIS364H1, HIS367Y0, HIS384H1,
HIS386H1, HIS420H1, HIS433H1, HIS434Y1, HIS436H1,
HIS439H1, HIS442H1, HIS449Y1, HIS451H1, HIS459H1,
HIS460H1, HIS461H1, HIS490H1

Temporal Requirement

HIS100Y1 (.50), HIS101Y1 (.50), HIS102Y1 (.50),
HIS103Y1 (.50), HIS106Y1, HIS107Y1 (.50), HIS108Y1
(.50), HIS109Y1 (.50), HIS110Y1 (.50), HIS208Y1 (.50),
HIS220Y1, HIS230H1, HIS243H1, HIS244H1, HIS250Y1
(.50), HIS251Y1 (.50), HIS265Y1 (.50), HIS271Y1 (.50),
HIS280Y1 (.50), HIS283Y (.50), HIS291H1, HIS293H1,
HIS295Y1 (.50), HIS297Y1 (.50), HIS303H1, HIS308H1,
HIS309H1, HIS320H1, HIS321H1, HIS323H1, HIS327H1,
HIS329H1, HIS332H1, HIS333H1, HIS336H1, HIS337H1,

HIS352H1, HIS353Y1 (.50), HIS355H1, HIS357Y1, HIS357Y0, HIS362H1, HIS368H1, HIS373H1, HIS375H1, HIS381H1, HIS382H1, HIS383Y1 (.50), HIS403H1, HIS414H1, HIS422H1, HIS424H1, HIS426H1, HIS427H1, HIS428H1, HIS432H1, HIS434Y1, HIS443H1, HIS446H1, HIS457H1, HIS467H1, HIS492H1, JIH369H1

Equivalent Courses

AFR290H1, AFR370H1, CDN230H1, CDN280H1, CDN340H1, CDN390H1, CLT337H1, CLT377H1, CLT378H1, CLT413H1, CLT416H1, CLT444H1, EAS245H1, EAS246H1, EAS247H1, EAS271H1, EAS285H1, EAS348H1, EAS364H1, EAS372H1, EAS374H1, EAS459Y1, * EAS464H1, EAS473H1, EAS475Y1, EAS484Y1, EUR200Y1, INS200H1, INS201Y1, INS300Y1, INS352H1, JPI201H1, NMC275H1, NMC278H1, NMC355H1, NMC372H1, NMC373H1, NMC376H1, NMC377Y1, NMC378H1, NMC386H1, NMC475H1, NMC477H1, NMC479H1, REN240Y1, REN348Y0, REN441H1, TRN250Y1, WGS481H1

*course(s) no longer offered

Thematic Streams

Although thematic streams are not an official program requirement, you may find it enriching to follow a particular theme across different time periods or geographical divisions.

Colonialism, Post-Colonialism, Trans-Nationalism

HIS106Y1, HIS208Y1, HIS280Y1, HIS282Y1, HIS283Y1, HIS291H1, HIS292H1, HIS303H1, HIS312H1, HIS314H1, HIS326H1, HIS353Y1, HIS380H1, HIS416H1, HIS445H1, HIS446H1, HIS467H1, HIS470H1, HIS480H1, NMC278H1, NMC376H1

Indigenous History

HIS101Y1, HIS102Y1, HIS230H1, HIS264H1, HIS291H1, HIS292H1, HIS359H1, HIS419H1, INS200H1, INS201Y1, INS300Y1, INS352H1, JIH366H1, JIH369H1, JIH460H1

International Relations

HIS103Y1, HIS311H1, HIS343H1, HIS344H1, HIS401H1, HIS405Y1, HIS451H1, HIS465H1

Medieval

HIS220Y1, HIS303H1, HIS320H1, HIS321H1, HIS323H1, HIS403H1, HIS424H1, HIS427H1, HIS428H1, HIS432H1, HIS438H1, NMC376H1

Women and Gender

HIS297Y1, HIS302H1, HIS323H1, HIS348H1, HIS363H1, HIS383Y1, HIS406H1, HIS446H1, HIS465H1, HIS481H1

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Note 2: HIS262H1, Canada: A Short Story of Here, is designed for non-History students, this introductory survey fulfills the "Society and Its Institutions" breadth requirement. It cannot be counted towards a History program, program requirements or as a pre-requisite for upper-level History courses.

Focus in Law and History (Major) - ASFOC0652B

The Focus in Law and History gives students the critical skill-set to interrogate the 'force of law', not only in the sense of law as enforced, but also as a vehicle of cultural, social, and economic knowledge. Importantly, it will ask students to interrogate assumptions of what counts as law across time and space. At the core of this Focus to the Major are fundamental questions of both law and society: Who has law? What does (or should) it look like? Who decides? What sorts of critical histories can be written from and about legal archives that span time, space, and language tradition?

Enrolment Requirements:

Enrolment in the History Major is required.

Completion Requirements:

3.0 credits

1. Methodological Training Requirement: HIS268H1: Law and History.
2. Law and History Focus Enrichment: 2.5 credits from the following list, including at least 1.0 credit at the 300+ level.

HIS101Y1, HIS230H1, HIS231H1, HIS282Y1, HIS283Y1, HIS303H1, HIS307H1, HIS308H1, HIS332H1, HIS335H1, HIS357Y1, HIS375H1, HIS379H1, HIS390H1, HIS391Y1, HIS397H1, HIS419H1, HIS424H1, HIS438H1, HIS443H1, HIS470H1, HIS493H1, JHN323H1

Some offerings of HIS389H1, HIS466H1 and HIS496H1 may also count towards this focus. Check with the department for current offerings.

Up to a 0.5 credit from non-HIS courses may be substituted for requirement 2, with permission of the

department. Substitutions will be reviewed based on a copy of the course syllabus.

History Minor (Arts Program) - ASMIN0652

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

The minor program provides a useful grounding for students interested in the study of the past and contributes to their development of interdisciplinary perspectives from across the Humanities and Social Sciences.

(4.0 credits, of which only 1.0 credit at the 100-level may be used to fulfill program requirements)

First Year: 1.0 credit at the 100-level is required. It is recommended that students complete this requirement prior to enrolling in the minor program.

Higher Years: Additional HIS courses to a total of 4.0 credits, including at least 1.0 credit at the 300- or 400-level.

Courses in other departments: Students may take up to a 0.5 credit from the Equivalent Courses list below.

Equivalent Courses

AFR290H1, AFR370H1, CDN230H1, CDN280H1, CDN340H1, CDN390H1, CLT337H1, CLT377H1, CLT378H1, CLT413H1, CLT416H1, CLT444H1, EAS245H1, EAS246H1, EAS247H1, EAS271H1, EAS285H1, EAS348H1, EAS364H1, EAS372H1, EAS374H1, EAS459Y1, * EAS464H1, EAS473H1, EAS475Y1, EAS484Y1, EUR200Y1, INS200H1, INS201Y1, INS300Y1, INS352H1, JPI201H1, NMC275H1, NMC278H1, NMC355H1, NMC372H1, NMC373H1, NMC376H1, NMC377Y1, NMC378H1, NMC386H1, NMC475H1, NMC477H1, NMC479H1, REN240Y1, REN348Y0, REN441H1, TRN250Y1, WGS481H1

*course(s) no longer offered

Note: HIS262H1, Canada: A Short Story of Here, is designed for non-History students, this introductory survey fulfills the Society and Its Institutions breadth requirement. It cannot be counted towards a History program, program requirements or as a pre-requisite for upper-level History courses.

Combined Degree Program (CDP) offered with Victoria College and Ontario Institute for Studies in Education (OISE)

- Combined Degree Program in HBA/HBSc and Master of Teaching (MT)

Students enrolled in the Minor in Education and Society and Major in History may apply for this Combined Degree Program. For details about application and program requirements, see the [Combined Degree Programs section](#).

Regarding History Courses

Note: Not all of these courses are taught every year. Please check the [Arts & Science timetable](#) or the [HIS Department website](#) for the list of courses offered in 2024-2025.

First-Year Foundations Seminars

First-Year Foundations Seminars are open only to newly-admitted, Faculty of Arts & Science students (3.5 credits or less). They are 1.0 credit or 0.5 credit courses that focus on discussion of issues, questions and controversies surrounding a particular discipline (or several disciplines) in a small-group setting that encourages the development of critical thinking, writing skills, oral presentation and research methods. FYF seminars are as rigorous and demanding as any other first-year course and require in addition the acquisition of those skills expected of successful undergraduate students. With a maximum enrolment of 30 students each, they are an ideal way to have an enjoyable and challenging small-class experience in your first year. Details can be found at www.artsci.utoronto.ca/future/academic-opportunities/first-year-opportunities/first-year-foundations-seminars.

First-Year Foundations Seminars:

- Count as 1.0 or 0.5 of the 20 credits required for an HBA, HBSc or BCom.
- First-Year Foundations Seminars are not required to get into any Program of Study. However, they may count towards your Program. Please check with your college registrar for further details.
- Can be counted towards the breadth requirement.

100-Level Courses:

All 100-series HIS courses are mutually exclusive, with the exception of AP, IB, CAPE, or GCE transfer credits.

Students may enrol in only one 100-level History course. Students enrolled in more than one of these courses (or who have completed one of these courses or a previous

History Courses

HIS100Y1 - History of the Arctic

Hours: 48L/20T

People have made the Arctic home for millennia, creating circumpolar cultures in its challenging climate. This course compares and examines connections in the contested polar region through several themes: cultures in contact, trade and exploration, environment, crime and punishment, and defense and sovereignty.

Exclusion: [HIS101Y1](#), [HIS102Y1](#), [HIS103Y1](#), [HIS106Y1](#), [HIS107Y1](#), [HIS108Y1](#), [HIS109Y1](#), [HIS110Y1](#)

Breadth Requirements: Living Things and Their Environment (4), Society and its Institutions (3)

HIS101Y1 - Histories of Violence

Hours: 48L/20T

Ranging widely chronologically and geographically, this course explores the phenomenon of violence in history. It examines the role and meanings of violence in particular societies (such as ancient Greece and samurai Japan), the ideological foundations and use of violence in the clash of cultures (as in slavery, holy wars, colonization, and genocide), and the effects and memorialization of violence.

Exclusion: [HIS100Y1](#), [HIS102Y1](#), [HIS103Y1](#), [HIS106Y1](#), [HIS107Y1](#), [HIS108Y1](#), [HIS109Y1](#), [HIS110Y1](#)

Breadth Requirements: Society and its Institutions (3), Thought, Belief and Behaviour (2)

HIS102Y1 - Empires, Encounters and Exchanges

Hours: 48L/20T

Can we speak of “international relations” before the modern concept of nation-states was established? What forms did globalization take in the pre-modern era? How did early global exchange shape our world today? Students in this course study interactions among peoples, empires, and cultures, in multiple regions of the world (specific areas and time periods will change depending on the professors teaching in any given year). Topics include the impact of new goods and technologies; dissemination

HIS 100-level course with a mark of 50% or greater) will be removed at any time. First-Year students can also enrol in 200-level HIS courses.

of ideas and religions; voyages of migration and exploration; and episodes of conquest and colonization. Analysis of primary sources and intensive focus on becoming strong writers.

Exclusion: [HIS100Y1](#), [HIS101Y1](#), [HIS103Y1](#), [HIS106Y1](#), [HIS107Y1](#), [HIS108Y1](#), [HIS109Y1](#), [HIS110Y1](#), [HISA04H3](#), [HISA05H3](#)

Breadth Requirements: Society and its Institutions (3), Thought, Belief and Behaviour (2)

HIS103Y1 - Strategy and Statecraft: War and Diplomacy in European History

Hours: 48L/20T

An analysis of the development of the international system, from 1648 to 1945, which highlights the role of war as an instrument of national policy, as a determinant of the system of states and as a threat to international society.

Exclusion: [HIS100Y1](#), [HIS101Y1](#), [HIS102Y1](#), [HIS106Y1](#), [HIS107Y1](#), [HIS108Y1](#), [HIS109Y1](#), [HIS110Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS106Y1 - The African Diaspora in the Americas, 1492-1804

Hours: 48L/20T

This course introduces the history of the African Diaspora in the Americas, from 1492-1804. Lectures and readings will draw from primary sources and historical scholarship to focus on a range of topics, including slavery and the slave trade, race relations, gender and sexuality, religious and cultural practices, and liberation struggles.

Exclusion: [HIS100Y1](#), [HIS101Y1](#), [HIS102Y1](#), [HIS103Y1](#), [HIS107Y1](#), [HIS108Y1](#), [HIS109Y1](#), [HIS110Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS107Y1 - Approaches to East Asian History

Hours: 48L/20T

This course draws on the history of China, Korea and Japan between 1600 to 1950 to explore historical issues of gender, nationalism, war and relations with the West.

Exclusion: [HIS100Y1](#), [HIS101Y1](#), [HIS102Y1](#), [HIS103Y1](#), [HIS106Y1](#), [HIS108Y1](#), [HIS109Y1](#), [HIS110Y1](#), [HIS284H5/EAS204Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS108Y1 - What is History?

Hours: 48L/20T

This course offers an introduction to history as a discipline - to the history of the discipline itself, to the questions, categories, and methodologies that constitute it, to the ways these interrogations and methods have evolved in varied times and places, and to the methodologies students need to acquire to engage in historical inquiry and writing. The course will be part methodological workshop, part epistemological reflection. Designed for any students interested in the study of the past or considering the History major.

Exclusion: [HIS100Y1](#), [HIS101Y1](#), [HIS102Y1](#), [HIS103Y1](#), [HIS106Y1](#), [HIS107Y1](#), [HIS109Y1](#), [HIS110Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS109Y1 - The Development of European Civilization, 1350-1945

Hours: 48L/20T

The shape of traditional society; the forces at work on the social, political, economic, cultural and intellectual structures of Western Europe since the high Middle Ages: the Structure of Traditional Society; the First Period of Challenges, 1350-1650; the Second Period of Challenges, 1650-1815; Confidence, Stability and Progress, 1815-1914; the Collapse of the Old Order and the Condition of Modern Europe, 1914-1945.

Exclusion: [HIS100Y1](#), [HIS101Y1](#), [HIS102Y1](#), [HIS103Y1](#), [HIS106Y1](#), [HIS107Y1](#), [HIS108Y1](#), [HIS110Y1](#)

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

HIS110Y1 - History of the Indian Ocean World

Hours: 48L/20T

This course introduces you to the connected and interdependent world people who lived between the present day cities of Dakar, in West Africa, and Jakarta, in Indonesia, from about 1000 to the present. We explore in this class the three "C"s which have linked human experience in Africa and Asia via routes which connected the Indian Ocean World: Connectedness, Contingency,

and Cosmopolitanism. We study how people who lived more than a thousand years before our time transported ideas, products, and scripts by land and sea via routes that connected large parts of Africa, Central & South Asia, and East and Southeast Asia, and their histories. The land and sea routes connected these communities and the cosmopolitan outlook of the hosts provided the contingent conditions for a Buddhist monks to travel from all over China to Southern and Southeast Asia; Muslim scholars to travel from West Africa to Indonesia; and merchants and writers to move within these worlds. Human migration, economic trade, and religious conversion had linked the lands and the seas, making it possible for our imams, merchants, monks, and servants to traverse these territories, across the Africa and Asia. This vibrant and wealthy world of African and Asian thinkers, merchants, leaders, and communities became the envy of the world, and as late as the seventeenth century, these crazy rich Africans and Asians dominated the world as it was known. We'll see how history is contingent--and that human migration, economic exploitation, lack of reciprocity, and legacies of European colonial racism have disrupted the cosmopolitan worlds of the Indian Ocean. The world is different today, but more than three quarters of the human population still live in Africa and Asia--see the richness of their worlds as it was for thousands of years, and what will be left for the people of this world as climate change makes the seas rise.

Exclusion: [HIS100Y1](#), [HIS101Y1](#), [HIS102Y1](#), [HIS103Y1](#), [HIS106Y1](#), [HIS107Y1](#), [HIS108Y1](#), [HIS109Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS111H1 - History and Social Media Algorithms

Hours: 24L/10T

What role does social media play in the spread of historical falsehoods? Platforms like Instagram, TikTok, and YouTube are relatively new, but the hidden power structures that shape their content are not. This course explores the relationship between social media platforms and history in two ways. First, class discussions, workshops, and guest lectures introduce students to overlooked histories behind social media itself, including the rise of the early internet and its diverse roots and applications. Second, we explore how and why social media platforms, and increasingly AI tools, have come to amplify and automate historical biases and misinformation, while censoring or burying accurate and important historical content. Our course focuses on the big histories behind algorithms to think about the AI future, while offering students hands-on experience building original, critical historical content for social media. Restricted to first-year students.

Breadth Requirements: Society and its Institutions (3)

HIS112H1 - Ten Events that Changed the World

Hours: 24L/10T

Ever wonder how and why the founding of Islam in 610, the Mongol conquests of Eurasia in the 13th century, the Trans-Atlantic Slave trade, the Haitian Revolution (1791-1804), or the detonation of the atomic bombs on Hiroshima and Nagasaki changed the world? This course ten events changed the world and continue to have ramifications today. Experts will give guest lectures on the important “events,” while students will learn how historians work to understand the significance of these moments, human agency, and the idea of an “event,” itself.

Breadth Requirements: Society and its Institutions (3)

HIS190H1 - Freedom Schools

Hours: 24S

This first-year seminar explores radical traditions of education beyond and in resistance to formal schooling. Transnational in scope—and journeying from the late nineteenth century to the present day—we will study the pedagogical innovations and grassroots struggles of anarchic youth, guerrilla intellectuals, and feminist revolutionaries who used education broadly, and historical inquiry in particular, as tools for empowerment and collective liberation. Focusing on primary sources from archives of anticapitalist, antiracist and anticolonial movements, we will investigate traditions of self-teaching and co-learning, genealogies of critical and transformative pedagogies, the construction of decolonial survival and supplementary schools, student mobilizations within and against the university, as well as abolitionist education in our contemporary moment. This course invites participants to interrogate the relationship of education to freedom and justice through collective criticism, self-reflection and creative expression. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS191H1 - Pandemics and Human History

Hours: 24S

We have all just lived through a major historical disruption caused by CoViD-19. In this course, you will be invited to use your experience of the pandemic as a tool for understanding other times, other places, and the study of history itself. We will study plagues and diseases from the ancient world to the Twentieth Century, and introduce

methods from social, cultural, and economic history, as well as concepts from the histories of science and medicine. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS192H1 - A History of Queer Asia

Hours: 24S

A first-year seminar on the history of queerness, in all its complexity and diversity, in the no less complex and diverse settings of East, South, and Southeast Asia. Our journey will encompass empires and Indigenous peoples, rulers and rebels, and range from early recorded history down to the twentieth century. Focus will be placed on primary sources and introducing students to the evolving definitions of “queerness” itself. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS193H1 - Calls to Action: The TRC and Residential Schools in Canadian History

Hours: 24S

The last Indian Residential School in Canada closed in 1996. For more than a century and half before that, the Canadian state supported church-run residential schools intended to take Indigenous children away from their families, cultures, languages and traditions. Over 150,000 children passed through the doors of these different schools that operated from coast to coast. Using the formal report of the Truth and Reconciliation Commission as a central text, this course explores that history and the ongoing legacy of residential schools in Canada while introducing first year students to historical research methods and sources. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS194H1 - Power, Resistance, and the Graphic Novel

Hours: 24S

This course will look broadly at the question of power and resistance in the Americas (Canada, the United States, and Latin America) through the prism of graphic novels. Each week we will read a graphic novel related to

important historical moments or events, drawing on scholarly articles to help us contextualize the novel. We will discuss the medium of graphic novels, their history and place in the broader culture, as well as how they might help or hinder our ability to study and disseminate information about the past. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS195H1 - Remembering and Forgetting

Hours: 24S

This course introduces students to the interdisciplinary study of history by exploring processes of remembering and forgetting intrinsic to every society. Topics include the ideas of history and memory, memory cultures and narratives and counternarratives and the study of legal trials, museums, monuments, novels and films as popular vehicles of historical knowledge. The course analyzes in particular how the experiences of war and violence have been both remembered and forgotten. The intersection, and dislocation, between trauma and remembrance is a main theme, as is the topic of collective memories in post-conflict societies. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: AMS199H1

Breadth Requirements: Society and its Institutions (3)

HIS196H1 - Religion and Violence

Hours: 24S

This seminar explores the roles of religion in extreme violence. Working backward from the 1990s (Rwanda, Yugoslavia), we will consider cases including Guatemala, Cambodia, Indonesia, the Holocaust, Armenians, German Southwest Africa, and genocide of Indigenous peoples in North America. Students will produce a final project based on original research. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS197H1 - Medieval Medicine

Hours: 24S

This course focuses on the theories and practices of medicine in Europe, c.500-1500, by examining surviving evidence from the period, including (in translation) pharmaceutical recipes, diagnostic guides, doctor's

records, treatises on anatomy, surgery and gynecology, commentaries on Hippocrates and Galen, laws and regulations for physicians, university lectures, disputes in court records, satirical writings against physicians, and so on, as well as visual evidence of artifacts, surgical instruments, manuscript illumination/diagrams, hospital sites and design. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS198H1 - Decolonizing Women's History

Hours: 24S

This course introduces students to the historiographical and theoretical debates in women's and gender history from a global perspective, with emphasis on the local histories of women in the non-western world. Students will study the themes in women's history as articulated by first and second wave feminists. The second part of the class deconstructs the basic assumptions of Western feminism through the perspective of post-colonial feminist writings and empirical studies. The readings are structured so that you consider how examples from Asia disrupt narratives of universality in Western feminist epistemologies. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

HIS200H1 - Drunk History

Hours: 24L/12T

Histories of wine or beer or vodka often focus either on the production of these alcoholic beverages and their role in national or local economies, or on the ways that drinking is part of celebration. But drunkenness enters the historical record in other ways, too—not just as a social lubricant but as a social ill, one associated with intimate violence or violence to the self and with mass protest. From worries about the Gin Craze to race-based restrictions on consumption, from tax policies to policing, this class will consider the many ways that drunkenness has been accepted, denounced, and legislated in societies around the world.

Exclusion: HIS195H1 (*Drunk History*), offered in Fall 2019 and Winter 2021.

Breadth Requirements: Society and its Institutions (3)

HIS205H1 - From Women's History to Gender History

Hours: 24L/10T

This course critically examines gender in the context of politics, society, culture, and economics across a range of comparative times and spaces depending on instructor expertise. In what ways have gendered norms and transgressions been part of human societies and lived experiences? How have those norms shifted across historical and geographical contexts? How has the history of gender impacted gender as it is lived and made political today? Throughout the course, we will be querying the theoretical assumptions underlying and framing the historical texts we are studying, as well as assessing the different kinds of primary sources used to recover women's and gender history.

Exclusion: [HIS245Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS205Y1 - Topics in Women's History

Hours: 48L/20T

This course introduces students to the diverse experiences of women from a comparative perspective. Students will study how women's strategies have shaped the major cultural, economic, political and social processes in the world and how these processes have affected women's experiences in their particular societies. By studying women's history from both local and global perspectives, students will engage critically with claims that women's history is universal. The local focus of the course will rotate between Africa, Asia, Europe, and North America, depending on the expertise of the instructors.

Exclusion: [HIS245Y1](#)

Breadth Requirements: Society and its Institutions (3), Thought, Belief and Behaviour (2)

HIS208Y1 - History of the Jewish People

Hours: 48L/20T

This course explores the origins of the Jewish people, beginning with the Bible and ending in the 21st Century. We will follow the development of Jewish social and cultural life across the Muslim and Christian worlds and discuss how Jews adapted to the constraints and opportunities provided by the non-Jewish majority. We will also learn about key Jewish books and concepts, including the Talmud, Kabbalah (Jewish mysticism), Halakhah (Jewish law), and Jewish philosophy. Finally, we will investigate the Jewish movements that arose in

response to the challenges of modernity and new ideologies.

Breadth Requirements: Society and its Institutions (3)

HIS218H1 - Environmental History

Hours: 24L/8T

A lecture-based course designed to introduce students to key moments and concepts in the field of environmental history since c. 1400. This course will track the reciprocal influence of humans and the non-human world since the so-called "Columbian Exchange," emphasizing the ways in which the non-human world—from plants, animals, and disease organisms to water, topography, and geography—have shaped human endeavours. At the same time, students will engage with many of the ways in which human beings have shaped the world around us, from empire and colonization, to industrial capitalism, nuclear power, and modern wildlife conservation.

Prerequisite: any 100-level History course

Breadth Requirements: Society and its Institutions (3)

HIS219Y1 - Medieval Mediterranean History

Hours: 48L/20T

A new approach to medieval history, this course focuses on the Mediterranean world as a site for the convergence of Western and Eastern Christian, Muslim, Jewish, sub-Saharan African, and East Asian peoples and cultures. It treats topics such as political and military conflict, including Muslim conquests and the Crusades; the situation of religious minorities; religious conversion; cultural exchange; commerce; slavery; aspects of material culture, such as art and architecture; and family and gender from a comparative perspective.

Exclusion: [HIS303H1](#), [HIS308H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS220Y1 - The Shape of Medieval Society

Hours: 48L/20T

Immersion in medieval western Europe with extensive readings of primary sources from Roman times to 1500 and use of works of art. The goal is to understand medieval society on its own terms, as much as possible.

Exclusion: HIS220Y5/ HIS220H5/ HIS221H5/ HISB60H3/ HISB61H3

Breadth Requirements: Society and its Institutions (3)

HIS221H1 - African American History to 1865

Hours: 24L/10T

An introduction to the history of Africans and people of African descent in the Americas generally, and the United States in particular. Major themes include modernity and the transatlantic slave trade; capitalism and reparations; Atlantic crossings; African women, gender, and racial formations; representation, resistance, and rebellion; nation-building; abolitionism and civil war; historical method and the political uses of the past.

Exclusion: HIS298Y1 (2016-17)

Recommended Preparation: Any 100-level course in Arts or Humanities

Breadth Requirements: Society and its Institutions (3)

HIS222H1 - African American History from 1865 to the Present

Hours: 24L/10T

This course examines the history of black people in the United States after the abolition of slavery. Major themes include the promise and tragedy of Reconstruction; gender and Jim Crow; race and respectability; migration, transnationalism, and 20th century black diasporas; black radical traditions and freedom movements; intersectionality and black feminisms; the drug war and mass incarceration; sexuality and the boundaries of blackness.

Exclusion: HIS 298Y1 (2016-17)

Recommended Preparation: Any 100 level course in Arts or Humanities

Breadth Requirements: Society and its Institutions (3)

HIS230H1 - Indigenous and Early Colonial Caribbean History

Hours: 24L/12P

This course introduces students to the study of Caribbean history from first human settlement to the late 18th century. Subject matter covered includes indigenous social structures, cosmology and politics; the process of European conquest; the economics, society and political order of colonial society; the Middle Passage; the everyday lives and struggles of enslaved peoples.

Exclusion: HIS294Y1

Breadth Requirements: Society and its Institutions (3)

HIS231H1 - Revolution and Emancipation in the Colonial Caribbean

Hours: 24L/12P

This course explores the history of the late eighteenth and nineteenth century Caribbean, from the Haitian Revolution to the U.S. occupation of Cuba and Puerto Rico. Students learn about the first struggles for political independence; the struggle to abolish the slave trade; slave emancipation; indentureship and struggles to define freedom after emancipation.

Exclusion: HIS294Y1

Breadth Requirements: Society and its Institutions (3)

HIS240H1 - World War I in Europe

Hours: 24L/10T

Many scholars believe that the initial 1900s had only been an extension of the 19th century and that the First World War opened the next age. Many feel that it changed Europe and the entire world and started a long period of military conflicts, genocides, nationalism, and high-speed modernization. This course will offer the most important facts related to the Great War and discuss their consequences. The course will demonstrate that it is difficult to understand our contemporary world without basic knowledge of World War I, that we are all grandchildren of that war.

Breadth Requirements: Society and its Institutions (3)

HIS241H1 - Europe in the Nineteenth Century, 1815-1914

Hours: 24L/10T

Intellectual changes in Britain, France, Germany, Austria-Hungary, Italy, Russia and other countries are discussed. The course examines large-scale political, social and cultural changes that created today's modern world.

Exclusion: EUR200Y1/ EUR200Y5/ FGI200Y5/ HIS241H5/ HISB93H3

Recommended Preparation: HIS103Y1/ HIS109Y1

Breadth Requirements: Society and its Institutions (3)

HIS242H1 - Europe in the 20th Century

Hours: 24L/10T

The evolution of European politics, culture, and society from 1914: the two world wars, Fascism and Nazism, the post-1945 reconstruction and the movement towards European integration.

Exclusion: [EUR200Y1/](#) [EUR200Y5/](#) [FGI200Y5/](#) [HIS242H5/](#) [HISB94H3](#)

Breadth Requirements: Society and its Institutions (3)

HIS243H1 - Early Modern Europe (15th-17th Centuries)

Hours: 24L/10T

The shape of modern European society is set in the early modern period. Expansion overseas sets some European nations on a path of imperial and colonial development which shapes international relations into the twenty-first century. The revival of classical forms revolutionizes art and architecture, and provides new models for education, politics, law, science, and gender relations. The split of the Christian Church into Protestant and Catholic denominations inspires intellectual and artistic creativity, sparks violent wars, and is brought around the globe by missionaries. Modern states and our fascination with determining 'national identity' take shape out of the competition between dynasties, social classes, faiths and territories.

Breadth Requirements: Society and its Institutions (3)

HIS244H1 - Early Modern Europe, 1648-1815

Hours: 24L/10T

This course will survey the history of Europe from the Thirty Year's War to the Napoleonic Empire. We will explore the principal themes which transformed Europe during this period: the birth of the modern nation-state; the increasing scale of warfare; the scientific revolution and the Enlightenment; the emergence of capitalist economies; the consolidation of transatlantic colonial empires; and the French Revolution. Students will read a range of primary and secondary source materials; attendance at lectures, participation in tutorials, course reading, and writing are all required components for this course.

Breadth Requirements: Society and its Institutions (3)

HIS245H1 - European Colonialism, 1700- 1965

Hours: 24L/10T

This course will introduce students to the history of European colonialism. It will analyze the nature of colonial rule, the impact of empire on both colonies and metropolises, and delve into questions of power, gender and culture. It considers slavery and abolition, imperial networks, colonial capital, colonial competition, colonial cultures, the twilight of colonial rule, and a variety of settings.

Breadth Requirements: Society and its Institutions (3)

HIS247H1 - The Second World War: A Global History

Hours: 24L/12T

This course offers an introduction to the global history of the Second World War. It aims to expose students to historiographical debates regarding the war, the use of primary sources, and the scholarly and intellectual challenges that come with studying an event of this magnitude and horror. In general, students will examine the origins and causes of the conflict, survey the factors that shaped the course of the war, and consider how and why the fighting came to an end when it did. These broad approaches will be supplemented with consideration of specific examples from around the world.

Breadth Requirements: Society and its Institutions (3)

HIS250Y1 - History of Russia

Previous Course Number: HIS250H1

Hours: 48L/20T

This course introduces the history of the modern Russian Federation and its predecessor states from the founding of Moscow through the ages of the Russian Empire and of the Soviet Union to the present day. Emphasis is placed on reading primary source documents.

Exclusion: [HIS250H1/](#) [HIS250H5](#)

Breadth Requirements: Society and its Institutions (3)

HIS251Y1 - History of East Central Europe

Hours: 48L/20T

The Polish, Czech, and Hungarian background; the Balkans in the late medieval and early modern periods. Renaissance, Reformation and Counter-reformation, decline and national awakening to the beginning of the 19th century. Partitioned Poland, nationalism in the 19th century; World War I, Peace Settlement, interwar years and the Communist period.

Breadth Requirements: Society and its Institutions (3)

HIS262H1 - Canada: A Short History of Here

Hours: 24L/10T

Designed for non-history students, this introductory survey fulfills the Society and Its Institutions breadth requirement. It is open to all who want to know more about Canada. Make sense of politics today and develop a deeper understanding of Canadian society and its institutions through study of the major events and demographic trends that have shaped the development of this country. Topics will include First Nations/newcomer relations (including treaties and the Truth & Reconciliation report), French/English relations (including Quebec separatism), regionalism, the North, economic history, constitutional developments, and the development of Canadian identity, including common symbols associated with Canada. No essay requirement. Instead, enhance your critical reading and thinking skills through short writing assignments and weekly discussions of tutorial readings.

This course will not count towards History program requirements or as a prerequisite for upper level courses

Exclusion: HIS263Y1, HIS264H1

Breadth Requirements: Society and its Institutions (3)

HIS264H1 - Critical Issues in Canadian History

Hours: 24L/12T

This course introduces key issues in Canadian history and foundational principles of historical analysis. It is particularly suited to potential History majors/specialists, although other students are welcome. It is not a comprehensive survey. Examples serve to deepen analysis and introduce important methods and debates, preparing students for upper year courses in Canadian history.

Exclusion: HIS262H1, HIS263Y1

Breadth Requirements: Society and its Institutions (3)

HIS265Y1 - Black Canadian History

Hours: 48L/20T

This course explores the historical experiences of persons of African descent in Canada. We begin by examining the presence of free and enslaved Africans in New France and British North America, moving into twentieth century themes exploring Black liberation, immigration and resistance in Canada. The course brings into sharp focus the historical production of racial categories and racist thought and practice in Canada and examines the experiences of Black Canadians within the context of 'multiculturalism.'

Breadth Requirements: Society and its Institutions (3)

HIS266H1 - Asian Canadian History

Hours: 24L/10T

The course examines the history of Asian Canadians from the mid-1800s to the present by analyzing their contributions to the socio-cultural, economic, and political development of Canada. It explores how Asian Canadian history reconfigures prevailing understanding of race, migration, multiculturalism, and national identity through intersectional, comparative, and transnational frameworks.

Exclusion: CDN230H1, UNI230H1

Breadth Requirements: Society and its Institutions (3)

HIS267H1 - Business History

Hours: 24L/10T

Business, and its history and evolution, is a fundamental aspect of understanding modernity. Capitalism and globalization, two of the most important aspect of business and its history, shape our world in profound ways. Utilizing a "glocal" approach that combines global and Canadian business history cases within a transnational context, this course seeks to interrogate and understand the evolution and development of modern business, capitalism and globalization from the late 19th Century into the early 21st.

Breadth Requirements: Society and its Institutions (3)

HIS268H1 - Law and History

Hours: 24L/10T

The Federal Interpretation Act of Canada states that the 'law is always speaking'. If the law is always speaking, then it must be speaking in present tense. But if it only speaks in present tense, does it have a past? How might we consider the field of law from different historical angles? This course will introduce students to different historical approaches to and uses of law. Using examples from a wide array of legal traditions (e.g. Common Law, Civil Law, Indigenous Law, Islamic Law), the course will help students gain a greater appreciation for the function, study, and development of law across different times and places.

Breadth Requirements: Society and its Institutions (3)

HIS271Y1 - American History Since 1607

Hours: 48L/20T

A survey of the economic, social, cultural, and political history of the United States from the colonial era to present times.

Exclusion: HIS271H5/ HIS272H5/ HISB30H3/ HISB31H3

Breadth Requirements: Society and its Institutions (3)

HIS280Y1 - History of China

Hours: 48L/20T

A critical history of the place we today call China from prehistoric times to the 21st century, tracing shifting borders, identities, governments, and cultures while challenging any singular definition of "China."

Breadth Requirements: Society and its Institutions (3)

HIS282Y1 - History of South Asia

Hours: 48L/20T

A rigorous survey of major themes in the history of South Asia (mapped largely but not exclusively by India, Pakistan and Bangladesh), using primary and secondary sources and addressing historiographical debates. Delves into regional complexities and considers broad questions about political economy, colonial governing, anti-colonial nationalism, capitalism, gender and cultural politics. Emphasizes the period after 1750; begins with an

overview of ancient, medieval and Mughal history before turning to the British Empire. Addresses how understandings of pre-modern worlds inform contemporary politics and cultures; contextualizes South Asia within current global formations.

Exclusion: HIS282H5/ HISB57H3

Breadth Requirements: Society and its Institutions (3)

HIS283Y1 - History of Southeast Asia: How the Lands Below the Winds Reshaped the World

Hours: 48L/20T

This course examines how the cultural, economic, religious, and social histories of "Southeast Asia" [Brunei, Cambodia, East Timor, Indonesia, Laos, Malaysia, Myanmar (Burma), the Philippines, Thailand, & Vietnam] shaped the world as we see it today. Lectures will demonstrate how the millennia-long cultural and material exchanges Southeast Asians engaged via water across the Indian and Pacific Oceans and the lands across Eurasia affected the lives of its inhabitants and the proximal and distant regions with which it had contact. In Tutorials, students will be trained to read primary sources. Themes to be explored include economic exchange, colonialism and its impact, gender and sexual diversity, and religion and society.

Breadth Requirements: Society and its Institutions (3)

HIS285H1 - History of Chinese Diasporas in the Americas

Hours: 24L/12T

Explores histories of ethnic Chinese and Chinese diasporas in the Americas, especially in Canada and the United States. Investigates events from the 19th, 20th, and 21st centuries. Topics include migrations, diasporas, transnationalism, identities, families, communities, cultures, and racialization, as well as relations with their host societies and with China.

Breadth Requirements: Society and its Institutions (3)

HIS291H1 - Latin America: The Colonial Period

Previous Course Number: HIS291Y1

Hours: 24L/10T

The evolution of Spanish and Portuguese America from pre-Columbian civilizations to the wars of independence.

Exclusion: [HIS291Y1/ HIS290H5](#)

Breadth Requirements: Society and its Institutions (3)

HIS292H1 - Latin America: The National Period

Previous Course Number: HIS292Y1

Hours: 24L/10T

A survey of Latin American history from the wars of independence to the present day.

Exclusion: [HIS292Y1/ HIS290H5](#)

Breadth Requirements: Society and its Institutions (3)

HIS293H1 - The Making of the Atlantic World, 1480-1804

Hours: 24L/10T

This course introduces students to the social, economic, cultural and political history of the Atlantic world resulting from European exploration and colonization in the Americas beginning in the 1490s and the growth of the transatlantic slave trade. It focuses on interactions between Africans, Europeans, and Amerindians around the Atlantic Ocean.

Breadth Requirements: Society and its Institutions (3)

HIS295Y1 - History of Africa

Hours: 48L/24T

An introduction to African history and the methodology of history more broadly, this course sets out to question how historians do history, examine differences in theories of knowledge, and explore the relationship between academic and cultural representations of the past. The course also draws on anthropology and related disciplines.

Exclusion: [HIS381H1/ HIS382H1/ HIS295H5](#)

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

HIS297Y1 - History of Africa from a Gender Perspective

Hours: 48L/20T

This survey of African history is analytical rather than narrative in its approach. It rethinks the way that African history has hitherto been conceptualized and taught by placing the question of gender at the center of the story of Africa.

Breadth Requirements: Society and its Institutions (3)

HIS298Y1 - Themes & Issues in History

Hours: 48L/20T

This is a thematic survey course addressing issues of gender, class, ethnicity, religion, war, economics and political strife through broad-sweep coverage of a region's history. Prepares students for upper-level study through exposure to eyewitness primary sources and conflicting secondary interpretations of events.

Breadth Requirements: Society and its Institutions (3)

HIS299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities....> Not eligible for CR/NCR option.

HIS300H1 - Energy and Environment in Canadian History

Hours: 24L

This course examines the history of energy in Canada from the perspective of environment, business, state, daily life, and culture, with emphasis on the twentieth century. Topics include Big Oil, large dams, nuclear power, energy colonialism, pipeline disputes, climate change, daily life, and the relationship between energy and social power.

Breadth Requirements: Society and its Institutions (3)

JSH300H1 - Literature and History in Russia

Hours: 24L

History and Literature were always interconnected in Russia. Writers not only sought to reflect the society around them, but were themselves often social critics and political figures. The course examines key texts in Russian literary tradition both as works of art and as primary sources for the historian. All readings in English.

Recommended Preparation: HIS250H1/ HIS250Y1 or SLA240H1/ SLA241H1

Breadth Requirements: Creative and Cultural Representations (1)

HIS301H1 - World War II France

Hours: 24L

This third-year lecture course examines the experience of the Second World War in France. Special attention is paid to questions of collaboration, resistance and accommodation. Other topics include the role of the French overseas colonies in this era, the issue of internal vs. external resistance, and the fate of civilian populations. Students engage with a set of primary and secondary sources as well as visual material that includes films.

Exclusion: VIC102H1

Recommended Preparation: A course in modern European history

Breadth Requirements: Society and its Institutions (3)

HIS302H1 - Material Culture in Victorian Britain

Hours: 24L

An examination of the products of the first and second industrial revolutions in Victorian England, including food, drugs, clothing, and trains. This course focuses on the cultural history of commercialization and consumerism.

Prerequisite: 1.0 HIS credit

Recommended Preparation: HIS109Y1, HIS241H1/ HIS349H1

Breadth Requirements: Society and its Institutions (3)

HIS304H1 - Topics in Middle East Histories

Hours: 24L

An in-depth examination of Middle East historical issues. Content in any given year depends on instructor. See History Website for more details.

Breadth Requirements: Society and its Institutions (3)

HIS305H1 - Death and Life in Plantation America

Hours: 24L

This course examines the experiences of enslaved people in the Americas and introduces students to the complex history of the 'plantation' as a site of violence; social, economic, labour and political organization and experimentation; kinship, culture and community recreation and rebellion. The course will focus on the 17th to 19th century Caribbean in comparative and transnational relationship to the continental Americas.

Prerequisite: HIS230H1/ HIS271Y1/ HIS291H1/ HIS295Y1

Breadth Requirements: Society and its Institutions (3)

JHM307H1 - Islamic Legal History: Formation and Encounters

Hours: 24L

This course examines the formation and encounters of Islamic Law with Legal Others from roughly the 8th century CE to the early formation of the Ottoman Empire. The Islamic legal tradition arose in a complex historical context in which legal traditions mapped onto, and gave legal cover to, imperial polities. As the Islamic polity expanded, so too did the imagination of jurists having to contend with new realities (political, geographic, economic, and otherwise). This course will introduce students to the formation of Islamic law in a context of contending legal orders, its ongoing encounters with legal orders in the course of Islamic expansion, and the retraction of Islamic legal orders and institutions as a tradition that anticipated political sovereignty experienced the limits of that sovereignty. Examples will be drawn from the Middle East, Africa, South Asia, and South East Asia. The course will introduce students to the disciplinary focus of Law and History through a focus on doctrine, institution, and the implications on both as territory and people are subject to varying waves of imperial designs and local resistance.

Prerequisite: HIS268H1

Breadth Requirements: Society and its Institutions (3)

HIS307H1 - Oral Histories of Asian Canadians

Previous Course Number: HIS286H1

Hours: 24L

This course explores the cultural and social history of everyday life as it affected Asian Canadians with focus on Chinese, Filipinos and South Asians from the 1960s to present. It introduces oral history and documentary film as key research methods for understanding changing cultural practices and identities within families, in food, and in social settings within and beyond ethnic communities.

Exclusion: HIS286H1

Recommended Preparation: HIS266H1

Breadth Requirements: Society and its Institutions (3)

HIS309H1 - Global Reformations

Hours: 36L

The Reformation has traditionally been approached as a 16th century European phenomenon. This course will consider religious reform movements from the 15th to 18th centuries and set these into a global framework, considering spatial and sensory dimensions, cross-cultural engagements and exchanges, and intersections with race and colonization.

Prerequisite: One of HIS102Y1/ HIS109Y1/ HIS243H1.

Students who do not meet these prerequisites are encouraged to contact the Department.

Exclusion: HIS340H5/ RLG346H5

Breadth Requirements: Society and its Institutions (3)

HIS310H1 - Democracy and Dissent in Postwar Canada

Hours: 24L

This course will explore the background, experience, and legacy of protest movements in Canada in the post-1945 era. The course will draw on the latest historical literature and will situate Canadian social movements in the broad transnational context in which they unfolded. Topics will include anti-racist movements, feminism, nationalism, Indigenous politics, environmentalism, labour, and the New Right and the New Left.

Prerequisite: 1.0 HIS/ JHA/ JHM/ JHN/ JIH/ JSH credit

Recommended Preparation: HIS264H1/ HIS262H1

Breadth Requirements: Society and its Institutions (3)

HIS311H1 - Canada in the World

Previous Course Number: HIS311Y1

Hours: 24L

Ranging from the fifteenth through to the turn of the twenty-first century, students will learn about the treaties, trade agreements and alliances, as well as the informal traditions, working relationships and cultural ties that shape relations of people living within the boundaries of present-day Canada with the world. For this course, "international relations" is broadly defined, including military, political, economic, environmental and immigration policies, both official and informal.

Exclusion: HIS311Y1/ HIS311H5/ HISC46H3

Recommended Preparation: A course in Canadian history or politics

Breadth Requirements: Society and its Institutions (3)

HIS312H1 - Immigration to Canada

Hours: 24L

From the colonial settlement to 21st century, immigration has been a key experience and much debated in Canadian life. Drawing on primary sources, as well as historical and contemporary scholarship, this course will discuss migration, citizenship and belonging as central features in Canada's experience of immigration. This course focuses on the individuals, groups, and collectives who built, defined, contested, and reimagined this country, to help make and remake Canada through immigration.

Recommended Preparation: HIS263Y1/ HIS264H1

Breadth Requirements: Society and its Institutions (3)

HIS313H1 - People and Other Animals in History

Hours: 24L

What happens to history when we consider nonhuman animals as subjects and actors alongside humans? This course revisits episodes, events, and historical processes with nonhuman animals in mind to explore the interpretive and analytic possibilities that emerge when other animals are considered as full participants in the historical record. Thematic focus is located in the Atlantic world since the early modern period.

Recommended Preparation: HIS218H1

Breadth Requirements: Society and its Institutions (3)

HIS314H1 - Twentieth-Century Quebec

Previous Course Number: HIS314Y1

Hours: 24L

This course will explore the history of Quebec in the 20th century. In addition to looking at more traditional themes focused on nationalism and constitutional politics, we will also look at the history of encounter between groups of different backgrounds and origins. As such, we will place a large emphasis on colonialism and Indigenous history, and the politics of language, race, and immigration. Themes will include, among others, the history of Quebec in an era of British imperialism, jazz, the art world, literature, the Oka Crisis, and Quebec's ties to Haiti and other parts of the non-Western world.

Exclusion: HIS314Y1

Breadth Requirements: Society and its Institutions (3)

HIS315H1 - Decolonial Vietnamese Histories

Hours: 24L

This course introduces students to the narratives that diverse actors have used to talk about Vietnamese histories. We will focus on the histories and perspectives of the indigenous peoples of the peninsula, ethnic minority groups, as well as that of the majority "Kinh people." We'll explore themes which have been central to shaping the geographic space, the socio-political regimes, and the cultural entity we now call "Viet Nam," while examining how varying types of historical method and archival strategies can influence the telling of histories. What kinds of techniques did Vietnamese and Western political actors, scholars, and writers, employ to narrate the Vietnamese past(s) and how do these visions tell us about the crafter of these narratives? What counts as "history" and who gets/got to decide? Whose experiences were relevant in the different epistemological approaches?

Breadth Requirements: Society and its Institutions (3)

HIS316H1 - Competing Colonialism in Northeast China The Harbin Experiment

Hours: 24L

This course explores the political, social, and cultural history of Harbin, one of the major cities of Manchuria/Northeast China, the product of competing Russian, Japanese, and international colonialism during the first half of the twentieth century, and an early case of multi-ethnic emigration and multiculturalism.

Prerequisite: HIS250Y1 or HIS280Y1 or HIS281Y1

Breadth Requirements: Society and its Institutions (3)

HIS317H1 - 20th Century Germany

Hours: 36L

A survey of modern German history in the twentieth century. Topics include World War I and the postwar settlement, the Weimar Republic, the National Socialist dictatorship, the Holocaust, the division of Germany, the Cold War, German reunification, Germany and the European Union, nationalism, political culture, war and revolution, religious and ethnic minorities and questions of history and memory.

Prerequisite: HIS103Y1/ HIS109Y1/ (HIS241H1, HIS242H1)/ EUR200Y1

Breadth Requirements: Society and its Institutions (3)

HIS318H1 - Histories of the "Wild" West

Hours: 24L

What happens when histories of North America begin in the West? This course examines the critical challenges that the myths and legacies of the West pose to North American history, from pre-contract to 1990. Themes include First Nations and colonialism, immigration, racism, economic development, regionalism, prostitution and illegal economies.

Breadth Requirements: Society and its Institutions (3)

HIS319H1 - Histories of the Horn of Africa

Hours: 24L

A critical, introductory survey exploring major themes in the political, social, economic, and cultural histories of the Horn of Africa [Somalia, Ethiopia, Djibouti, Eritrea, Sudan, South Sudan] and surrounding Red Sea and Indian Ocean from prehistoric times to the present.

Recommended Preparation: A course in African History such as HIS295Y1, AFR290H1, AFR370H1

Breadth Requirements: Society and its Institutions (3)

HIS320H1 - Barbarian Invasions and the Fall of the Roman Empire

Hours: 24L

Covers major events and themes for the period 300-600, including decline of Greco-Roman paganism, conversion to Christianity, individual barbarian groups (Ostrogoths, Visigoths, Huns, Burgundians, Vandals, Franks, Lombards), their culture and impact on empire, Justinian's reconquests.

Recommended Preparation: [HIS220Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS321H1 - Dark Age Europe, 7th-10th Centuries

Hours: 24L

Surveys major events and figures for the period c. 600-1000, including: Pope Gregory the Great, the Merovingian Franks, Lombard Italy, Byzantine civilization, the rise of Islam, Charlemagne, the Carolingian Renaissance, the Vikings, Anglo-Saxon England to King Alfred, the Ottonians.

Exclusion: [HIS320Y1](#)

Recommended Preparation: Some ancient history, ancient Greek or Latin language, early Christianity, Celtic history, Old Irish and Old English languages.

Breadth Requirements: Society and its Institutions (3)

HIS322H1 - Topics in African History

Hours: 24L

Selected topics on a specific period, aspect or themes in African history. Topics in any given year depend on the instructor.

Recommended Preparation: [HIS295Y1](#)

Breadth Requirements: Society and its Institutions (3)

JHN323H1 - Indigeneity in the Caribbean

Hours: 24L

Explores the legacies of the pre-Columbian era, as well as the post-1492 experiences of people of pre-Columbian Caribbean ancestry. Examines the origins and consequences of the Caribbean's narrative of "indigenous absence", as well as the relationship between indigeneity, globalization and diaspora.

Prerequisite: [INS201Y1](#)/ [HIS230H1](#)/ [HIS231H1](#)/ [CAR120Y1](#)/ [CAR220H1](#)/ [CAR221H1](#)/ [NEW224Y1](#)/ [CAR225H1](#)/ [CAR226H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS323H1 - Rites of Passage and Daily Life in the Middle Ages

Hours: 36L

Reflecting on the life cycle and rites of passage in the medieval period gives the opportunity to study the daily lives of peasants, nobles, monks, nuns, and burghers, and to observe from an interesting angle the differences between female and male life experiences.

Recommended Preparation: [HIS220Y1](#) or a course in the Middle Ages in any discipline

Breadth Requirements: Society and its Institutions (3)

HIS324H1 - The Criminalization of Protest in Latin American History

Hours: 24L

The criminalization of protest is generally understood in terms of policing, and the use of legal measures, including states of exception, to quell dissent. Criminalization can also refer to the stigmatization of individuals, groups, and communities by the state, and the marginalization of working class or racialized groups. This course invites students to study lived experiences of criminalization in Latin American history.

Prerequisite: [HIS292H1](#)

Recommended Preparation: [HIS397H1](#), or a course on policing/human rights

Breadth Requirements: Society and its Institutions (3)

HIS325H1 - Imperial Russia

Hours: 36L

This course focuses on Russia's history during a period of remarkable change and turbulence, when the country more firmly established its far-flung empire while simultaneously attempting to define itself as a nation. From the wars and reforms of Peter the Great through the end of the empire during the First World War, the course touches on questions of social and cultural change, and the political events that allowed or constrained them.

Prerequisite: 1.0 HIS credit at the 200+ level

Breadth Requirements: Society and its Institutions (3)

HIS326H1 - Topics in Asian Histories

Hours: 24L

A specific period in some aspect of Asian histories. Topics in any given year depend on the instructor.

Prerequisite: [HIS280Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS327H1 - Rome: The City in History

Hours: 24L

This course investigates the development of Rome from its mythical foundations, through the Empire, the Middle Ages, Renaissance and Baroque to the modern city, illustrating the shift from the pagan to the papal city and its emergence as the capital of a united Italy after 1870 and a modern European metropolis.

Prerequisite: At least 1.0 credit European History course(s)

Exclusion: [VIC348Y1](#) (offered in Fall/Winter 2012-2013, 2013-2014, 2014-2015 and 2015-2016) and [VIC162H1](#) (offered in Fall 2016, Fall 2017 and Fall 2018)

Breadth Requirements: Society and its Institutions (3)

HIS328H1 - Modern China

Previous Course Number: HIS328Y1

Hours: 24L

An examination of political, social and economic developments in modern Chinese history to the present day. Main topics may include the decline of the Imperial order and the challenge of Western imperialism; the Republican period; the rise of the Communist movement; the People's Republic of China.

Prerequisite: [HIS280Y1](#)

Exclusion: [JMC201Y1](#), [HIS328Y1](#), [EAS285H1](#)

Recommended Preparation: [HIS380H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS329H1 - Central Middle Ages (900-1200)

Hours: 36L

A chronological survey from 900, with the foundation of Cluny by the Duke of Aquitaine, the last waves of Vikings, and the decline and end of the Carolingian Empire, up to 1200, with the Battle of Bouvines, the more formal

organization of the first universities and the construction of the Gothic cathedrals. The main question will be: what happens when there is no real central power? Why did the term "Feudalism," now nicknamed the F word by medievalists, was judged inappropriate to describe the situation?

Recommended Preparation: [HIS219Y1](#), [HIS220Y1](#) or a course on the Middle Ages from any discipline

Breadth Requirements: Society and its Institutions (3)

HIS330H1 - Germany from Frederick the Great to the First World War

Hours: 24L

Topics include German reactions to the French Revolution, Napoleonic occupation, the Wars of Liberation, industrial expansion, the Revolutions of 1848, unification in 1871, Bismarck and Kaiser Wilhelm II, everyday life, gender relations, avant-garde culture, nationalism, antisemitism, colonialism, and the Great War of 1914-18.

Prerequisite: 1.0 HIS credit at the 100- or 200-level excluding [HIS262H1](#)

Exclusion: [HIS341Y1](#)

Recommended Preparation: [HIS241H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS331H1 - Modern Baltic History

Hours: 24L

The history of the Baltic countries, Estonia, Latvia and Lithuania from 1900 to the present day, with emphasis on the emergence of independent Baltic states, World War II, communist era, the Baltic Revolution, the restoration of independence and European integration.

Recommended Preparation: [HIS250H1](#)/ [HIS250Y1](#)/ [HIS251Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS332H1 - Crime and Society in England, 1500-1800

Hours: 24L

The changing nature of crime and criminal justice in early-modern England; the emergence of modern forms of policing, trial and punishment.

Prerequisite: 9.0 credits, including 1.0 HIS credit excluding [HIS262H1](#)
Breadth Requirements: Society and its Institutions (3)

HIS333H1 - Catholic Asia in the Early Modern Era, 1500-1800

Hours: 24L

This course examines the impact of Catholicism in Asia, from its introduction to its relevance in the contemporary global order. Students will be introduced to how Catholicism and the technologies accompanying it affected historical transitions in local communities in Asia as well as how the growth of these communities has affected the global Catholic Church.

Prerequisite: 1.0 credit in European or Asian history. Students who do not meet the prerequisite are encouraged to contact the Department.
Breadth Requirements: Society and its Institutions (3)

HIS335H1 - Canadian Legal Histories

Hours: 24L

This course examines Canadian legal history through differing Indigenous, civil, and common law legal traditions, using multiple categories of analysis, including race, gender, class, spirituality and sexuality. Legal history is a strong and engaging field of study in Canada. Topics will include constitutional histories, treaties, law-making, differing systems of land tenure, the franchise and the structure of deliberative bodies (e.g. legislatures), courts and systems of justice, policing and criminal law, punishment (including histories of incarceration and alternatives).

Prerequisite: 4.0 credits including [HIS263Y1](#)/ [HIS264H1](#). Students who do not meet the prerequisite are encouraged to contact the Department.
Breadth Requirements: Society and its Institutions (3)

HIS337H1 - Culture, Politics and Society in 18th Century Britain

Previous Course Number: HIS337Y1
Hours: 24L

Deals with England, Scotland, Ireland and the Atlantic World. Addresses major political, social, economic, intellectual and cultural highlights of the "long" eighteenth century. Deals with enlightenment, industrialization and the loss of the first British empire. Interrogates Britain's emerging status as a world power.

Exclusion: [HIS337Y1](#)
Recommended Preparation: [EUR200Y1](#)/ [HIS109Y1](#)/ [HIS243H1](#)/ [HIS244H1](#)/ [HIS368H1](#)
Breadth Requirements: Society and its Institutions (3)

HIS338H1 - The Holocaust, to 1942

Previous Course Number: HIS338Y1, HIS398Y1
Hours: 24L/5T

German state policy towards the Jews in the context of racist ideology, bureaucratic structures, and varying conditions in German-occupied Europe. Second Term considers responses of Jews, European populations and governments, the Allies, churches, and political movements.

Prerequisite: Completion of 6.0 credits
Exclusion: [HIS388Y1](#)/ [HIS398Y1](#)/ [HIS338H5](#)
Recommended Preparation: A course in modern European history
Breadth Requirements: Society and its Institutions (3)

HIS339H1 - History of Modern Israel

Hours: 24L

This course explores the history of the Jewish state from the rise of Zionism to the present. Topics include the Zionist-Arab conflict, immigration, the construction of a new Hebrew identity, interactions between religion and state, the impact of the Holocaust, and the relationship between Israel and the Jewish diaspora.

Prerequisite: [HIS208Y1](#)
Breadth Requirements: Society and its Institutions (3)

HIS340H1 - The Ottoman Empire, 1800-1922

Hours: 24L

The course examines the history of the Ottoman Empire from the beginning of the 19th c. until its dissolution in the course of World War I. Topics include Ottoman reforms, relations between the Empire's populations and the state, the diplomatic interactions known as "the Eastern Question," the Young Turk revolution, gender, and intellectual, cultural and artistic developments.

Prerequisite: 1.0 HIS credit at the 200-level excluding [HIS262H1](#)
Exclusion: [HIS389H1](#) (The Ottoman Empire, 1800-1922)
Breadth Requirements: Society and its Institutions (3)

HIS341Y1 - Germany Among the Global Empires 1840-2010

Hours: 48L

This course places Germany's long national history in a transnational and global context, exploring its place among the global empires of Britain, Russia, France and the United States from the mid-seventeenth century to the present. Events of the German nation-state's political, social and cultural developments are analyzed through a framework focused on both military expansion and the development of the world economy after 1700. Particular attention is paid to the interplay between strategies for a global expansion and transformations in national culture, looking at Germany in the world and the world in Germany.

Prerequisite: Two HIS courses from the following: HIS102Y1/ HIS103Y1/ HIS107Y1/ HIS109Y1/ HIS241H1/ HIS242H1/ HIS243H1/ HIS244H1/ EUR200Y1/ HIS250Y1/ HIS271Y1

Recommended Preparation: HIS102Y1/ HIS109Y1/ HIS241H1/ HIS242H1

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

HIS342H1 - Political and Psychological Liberation in 20th Century Africa

Hours: 24L

This course examines the growth of movements for the political liberation of Africa and the psychological liberation of Africans from Western imperialism and cultural hegemony. Postcolonial thinking and art was fundamental to the project of decolonization. It uses primary text and films to explore African cultural and intellectual history.

Breadth Requirements: Society and its Institutions (3)

HIS343H1 - History of Modern Intelligence

Hours: 24L

This course explores the rise of modern intelligence over the long 20th century, from Anglo-Russian imperial competition before World War I through to the post-9/11 era. Students will study the contribution of intelligence services to victories and defeats in war, peace, and the grey areas in between. The course will also examine the relationship between intelligence services and society.

Exclusion: HIS343Y1

Recommended Preparation: HIS103Y1 or an equivalent

introduction to modern international relations

Breadth Requirements: Society and its Institutions (3)

HIS344H1 - The Global Cold War

Hours: 24L

This course examines the Cold War through its global dimensions, going beyond the American-Soviet bipolar rivalry to explore the impact of the Cold War in Latin America, Asia, and Africa. Students will work closely with original primary sources and interrogate historical interpretations of the Cold War through different regional and thematic perspectives.

Exclusion: HIS344Y1

Breadth Requirements: Society and its Institutions (3)

HIS345H1 - History and Film

Hours: 24L

This course is designed to further students knowledge of films relationship to the events they depict and their undeniable power as representational systems to render history effectively. This will necessarily entail both close examination of the formal systems film rely upon and an understanding of the distinction between fictional and non-fictional forms in film.

Prerequisite: 2.0 HIS credits excluding HIS262H1.

Students who do not meet these prerequisites are encouraged to contact the Department.

Recommended Preparation: CIN201Y1

Breadth Requirements: Society and its Institutions (3)

HIS346H1 - Rice, Sugar, and Spice in Southeast Asia: a History of Food in the Region

Hours: 24L

This course examines the importance of food products in the livelihoods of the inhabitants of Southeast and in the world economy. It traces the circulation of these products within the Southeast Asian region in the pre-modern period, into the spice trade of the early modern era, and the establishment of coffee and sugar plantations in the late colonial period, and the role of these exports in the contemporary global economy.

Recommended Preparation: 1.0 credit in Asian or European history

Breadth Requirements: Creative and Cultural Representations (1)

HIS347H1 - The Country House in England 1837-1939

Hours: 24L

This course examines class distinction and community through the lens of the English country house from 1837 to 1939. Topics include owners, servants, houses, collections, gardens and rituals such as fox hunting.

Prerequisite: 1.0 HIS credit

Recommended Preparation: [HIS109Y1](#), [HIS241H1](#)/[HIS349H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS348H1 - Topics in Gender History

Hours: 24L

An in-depth examination of issues in gender history. Content in any given year depends on instructor. See History website for more details.

Breadth Requirements: Society and its Institutions (3)

HIS349H1 - History of Britain: Struggle for Power

Hours: 24L

An introduction to the history of modern Britain with emphasis on the crown, class, gender, political parties, race, ethnicity, European Union and Brexit.

Prerequisite: 4.0 credits

Breadth Requirements: Society and its Institutions (3)

HIS350H1 - Topics in European Histories

Hours: 24L

Selected topics on a specific period and/or region in European Histories

Prerequisite: 4.0 credits

Breadth Requirements: Society and its Institutions (3)

HIS351H1 - The Soviet Union and After

Previous Course Number: HIS351Y1

Hours: 36L

A survey of the history of the Soviet Union and its successor states beginning with the collapse of the Russian Empire. The course draws on scholarly literature, memoirs, and often film to understand the social, cultural, and political developments of the Soviet state, including famine, terror, and war.

Prerequisite: 1.0 HIS credit at the 200+ level

Exclusion: [HIS351Y1](#)/ [HIS351H5](#)

Breadth Requirements: Society and its Institutions (3)

HIS352H1 - A History of Women in Pre-colonial East Africa

Hours: 24L

This course examines the lived experience of women in societies, communities and polities of varying sizes across territories that cover eight contemporary East African states. It encompasses the period from 1000 B.C to the end of the nineteenth century. Topics covered are clustered under four broad themes: a) Ecology, work in commodity production, wealth and exchange relations; b) "Institutional" power, ideology and structures; c) "Creative" power particularly in the areas of healing, resistance/contestation and transformation; and d) Violence, war and vulnerability.

The course challenges present day gender and identity categories applied to Africa's deep past and highlights critical nuances of gender, identity and power dynamics in Africa.

Prerequisite: [AFR150Y1](#) or any course in African History

Breadth Requirements: Society and its Institutions (3)

HIS353Y1 - Poland: A Crossroads of Europe

Hours: 48L

Social and political history of Poland from the 10th to the 20th century. Analysis of the political history in a broader, central European context; consequences of Christianization of medieval Poland and the Polish-Lithuanian union; Sarmatian culture, Antemurale, Polish Messianism and Cordon sanitaire.

Prerequisite: [HIS251Y1](#)/permission of the instructor

Breadth Requirements: Society and its Institutions (3)

HIS354H1 - Jews of Arab Lands: From the Prophet Muhammad to European Colonialism

Hours: 24L

This course introduces the Jewish communities of Arab lands by examining their social, cultural, and political experiences from the Arab conquests to European colonialism. We will examine the sometimes “symbiotic” relationship that existed between Jews and Muslims as well as the factors that threatened it by considering both the history of everyday life and of high culture. Many of Judaism’s formative institutions and literary works were developed in the Middle East and we will explore how they developed in dialogue with Islamic culture. Finally, we will study the impact of Western colonialism and nineteenth-century encounters between “Western” and “Eastern” Jews.

Prerequisite: 4.0 credits

Recommended Preparation: [HIS208Y1](#)/ [HIS219Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS355H1 - A History of Pre-modern Medicine

Hours: 24L

This course surveys major themes and developments in the history of medicine from c.600 BCE to 1800 CE. Topics include: Hippocrates, Galen and their reception in the Middle Ages; monasteries, medicinal gardens and hospitals; medieval licensing of physicians and pharmacists; medieval scholastic medicine; the Black Death; Renaissance anatomy and charlatans; New World drug discoveries; William Harvey’s heart, William Withering’s foxglove, the isolation of morphine.

Prerequisite: 1.0 credit in medieval or pre-modern history. Students who do not meet the prerequisite are encouraged to contact the Department.

Recommended Preparation: [HIS220Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS356H1 - War in Canadian History

Hours: 24L

This course examines war as a major force in the history of Canada from the so-called colonial period to recent times. In addition to key dynamics in military history (e.g. battles, military organization), the course will stress the links between war and society, politics, empire and colonialism, technology and environment, memory and commemoration, and identity. Topics may include

indigenous warfare and diplomacy, imperial rivalry in early North America, Canada and the British Empire, the world wars, the Cold War, and peacekeeping. Soldiers and peaceniks are both welcome and will be equally happy and annoyed.

Recommended Preparation: [HIS264H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS357Y0 - The Renaissance

Exclusion: [HIS357Y1](#)/ [HIS357H1](#)/ [HIS357Y5](#)/ [HIS357H5](#)

HIS358H1 - Canadian History in 100 Objects

Hours: 24L

The Canadian history course focuses on museums and material culture (history of objects). Using museum visits, lectures, and workshops, students in this course have an opportunity to conduct original research on how artefacts (and the institutions that house them) offer us new ways of thinking about the past.

Prerequisite: [HIS264H1](#) or [HIS263Y1](#)

Exclusion: [HIS389H1](#) (Material Culture in Canada)

Breadth Requirements: Society and its Institutions (3)

HIS359H1 - Regional Politics and Radical Movements in the 20th Century Caribbean

Hours: 24L

The role of nationalism, race and ethnicity, class conflict and ideologies in the recent development of Caribbean societies; Europe’s replacement by the United States as the dominant imperial power in the Caribbean; how this mixture of regional and international pressures has led to widely differing political systems and traditions.

Recommended Preparation: [HIS294Y1](#)/ [HIS230H1](#), [HIS231H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS360H1 - Critical Histories of the Black Canadian Experience

Previous Course Number: HIS360Y1

Hours: 24L

This course addresses the long and diverse historical experiences of black people in Canada. Each year the course is offered, it will emphasize a specific theme which may include slavery and its afterlife, black liberation and resistance, black geographies, (im)migration, education, black diasporic communities, and black womanhood and gendered politics. Discussions in this course will consider the place of Canada within broader transnational debates about race and blackness. Details regarding specific topics will be available on the department's website on an annual basis.

Prerequisite: 1.0 HIS credit

Exclusion: HIS360Y1

Recommended Preparation: Any 100/ 200-level HIS course

Breadth Requirements: Society and its Institutions (3)

HIS361H1 - The Holocaust, from 1942

Hours: 24L/5T

Follows on HIS338H1. Themes include: resistance by Jews and non-Jews; local collaboration; the roles of European governments, the Allies, the churches, and other international organizations; the varieties of Jewish responses. We will also focus on postwar repercussions of the Holocaust in areas such as justice, memory and memorialization, popular culture and politics.

Prerequisite: Completion of 6.0 credits and HIS338H1

Exclusion: HIS338Y1/ HIS361H5

Recommended Preparation: A course in modern European history

Breadth Requirements: Society and its Institutions (3)

HIS362H1 - Topics in Early American History

Hours: 24L

Special topics in Early American History (to 1830). Topics will vary by the instructor and year.

Prerequisite: 4.0 credits

Recommended Preparation: HIS271Y1

Breadth Requirements: Society and its Institutions (3)

HIS363H1 - Dynamics of Gender in Canadian History

Hours: 24L

A lecture course which deals thematically with gender issues in Canadian history (including familial roles,

changing patterns of work and employment, and participation in the public sphere).

Prerequisite: HIS263Y1/ HIS264H1

Breadth Requirements: Society and its Institutions (3)

HIS364H1 - From Revolution to Revolution: Hungary Since 1848

Hours: 24L

This course offers a chronological survey of the history of Hungary from the 1848 revolution until the present. It is ideal for students with little or no knowledge of Hungarian history but who possess an understanding of the main trends of European history in the 19th and 20th centuries. The focus is on the revolutions of 1848-1849, 1918-1919, the 1956 Revolution against Soviet rule and the collapse of communism in 1989. The story has not been invariably heroic, violent and tragic.

Prerequisite: A 100 level HIS course

Breadth Requirements: Society and its Institutions (3)

HIS365H1 - History of the Great Lakes Region

Hours: 24L

This course is a survey of the Great Lakes Region as a "trans-national space" from the 1780s to recent times. Attention is focused on the development of the region from indigenous space to industrial heartland and its subsequent deindustrialization. Key themes include economic development, colonialism and re-settlement, environmental history (particularly of the lakes themselves), and the role of the Canada-US border in shaping the region. The course includes material from both Canadian and American history. Considerable attention is paid to Toronto as a Great Lakes city.

Recommended Preparation: HIS264H1 or HIS271Y1

Breadth Requirements: Society and its Institutions (3)

JIH366H1 - Indigenous Histories of the Great Lakes, 1815 to the Present

Previous Course Number: HIS366H1

Hours: 24L

Explores the history of Aboriginal peoples (Indigenous and Metis) living in the Great Lakes Region after the Great Lakes were effectively split between British North America (later Canada) to the north and the United States to the

south, when a rapidly increasing newcomer population on both sides of the border marginalized Indigenous peoples and settled on their land. Topics include a comparative examination of Indigenous experiences of colonialism, including treaties and land surrenders as well as the development of government policies aimed at removing and/or assimilating Great Lakes peoples. This course will also study resistance by First National and Tribal Councils to those programs over nearly two centuries and assess local strategies used for economic and cultural survival.

Prerequisite: [HIS263Y1/](#) [HIS264H1/](#) [HIS271Y1/](#) [INS200H1/](#) [INS201Y1](#)

Exclusion: [HIS366H1/](#) [HIS369Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS368H1 - Early Modern Britain, 1485-1660

Hours: 24L

Introduction to the political, social and religious history of early modern England, Scotland and Ireland. Particular attention will be paid to the history of the monarchy, the Protestant Reformation, gender issues and relations between different parts of the British Isles.

Recommended Preparation: [EUR200Y1](#), [HIS109Y1/](#) [HIS243H1/](#) [HIS244H1](#)

Breadth Requirements: Society and its Institutions (3)

JH369H1 - Great Lakes Indigenous Histories to 1830

Previous Course Number: HIS369H1

Hours: 24L

Explores the history of Aboriginal Peoples (Indigenous and Métis) living in the Great Lakes Region from the 16th century to the aftermath of the War of 1812. Weaving together interdisciplinary sources, this course examines central events in Great Lakes history including the formation of the Wendat and Haudenosaunee Confederacies and key Anishinabek alliances, the arrival of European newcomers into an Indigenous landscape, the social-political impact of new diseases, reactions to European missionaries, the fur trade, major conflicts and peace processes including the Great Peace of Montreal, the Treaty of Niagara and the 60 Years War for the Great Lakes; and ending with the period of significant encroachment of new settlers on Indigenous lands.

Prerequisite: [HIS263Y1/](#) [HIS264H1/](#) [HIS271Y1/](#) [INS200H1/](#) [INS201Y1](#)

Exclusion: [HIS369H1/](#) [HIS369Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS370H1 - Modern Palestine

Hours: 24L

Weekly lectures provide an overview of the political struggles over Palestine between Zionist and Palestinian national movements in the twentieth century in the context of British colonialism, UN negotiations and resolutions, Third-Worldism, superpower rivalry and everyday cooperation and occupation on the ground.

Exclusion: [HIS339H1](#)

Recommended Preparation: [HIS340H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS371H1 - Canadian Political History

Hours: 24L

This course examines the history of Canadian politics from the late colonial period to the recent past. Lectures and discussions will focus attention on specific political issues (responsible government, Confederation, war, welfare, battles over voting rights, campaigns for social change, etc.) but also consider the deeper structural, social, economic, and cultural dynamics that shaped politics over time. The course takes a broad view of politics (elections and parties but also social movements, interest groups, bureaucracy). A key theme is the nature of political power in a democratic polity.

Prerequisite: [HIS264H1/](#) [HIS263Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS372H1 - Topics in U.S. History

Hours: 24L

In-depth examination of selected periods or themes in U.S. history. Topic in any given year depends on instructor. See History website for more details.

Exclusion: [HIS372H5/](#) [HISD36H3](#)

Recommended Preparation: [HIS271Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS373H1 - Servants and Masters, 1000-1700

Hours: 36L

This course will explore the history of all types of servants, from the ladies-in-waiting to the domestic slaves, in Western Europe between 1000 and 1700. The goal will be

to observe especially their working and living conditions, as well as the changing perception of service through time.

Recommended Preparation: [HIS220Y1](#), [HIS243H1](#) or a course on the Middle Ages or Early Modern Europe.

Breadth Requirements: Society and its Institutions (3)

HIS374H1 - Mass Incarceration in the United States

Hours: 24L

The United States is home to five percent of the world's population but twenty-five percent of the world's prisoners, including a disproportionate number of African American, Latinx, and Native American people. This vast carceral archipelago is the subject of extensive scholarly and public debate over the history, ethics, and function of incarceration in the United States. In this course, we will explore the rise of contemporary mass incarceration from an interdisciplinary perspective that draws upon history, sociology, and legal studies to reveal the linkages among state-formation, politics, capitalism, and modern punishment as well as community responses to mass incarceration.

Prerequisite: [HIS271Y1](#)/ ([HIS221H1](#), [HIS222H1](#))

Exclusion: [HIS389H1](#) (Topics in History: Mass Incarceration in the United States) offered in Fall 2018, 2019, and 2022.

Breadth Requirements: Society and its Institutions (3)

HIS375H1 - Crime and Punishment in the Early Modern World

Hours: 36L

What did it take to break the law in the period 1400-1800, and how were people prosecuted and punished when they did? We will review the kinds of crimes that triggered arrest, the different types of law codes in place and the importance of the revival of Roman law, ways of avoiding prosecution, the criminalization of "deviance", judicial processes in colonization, and variations based on age and gender. We'll also look at forms of punishment, including the varieties of corporal and capital punishment, the operation of prisons, the use of exile and transportation.

Prerequisite: 4.0 credits

Exclusion: [HIS357Y1](#)

Recommended Preparation: [HIS243H1](#)/ [HIS244H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS377H1 - U.S.A. in the World

Previous Course Number: HIS377Y1

Hours: 24L

A survey of the history of American foreign relations focusing on the 20th century to the present. Themes include imperial expansion and the uses of power; the relationship of business and government in U.S. foreign policy; and the role of culture and ideas in Americas relations with the world.

Recommended Preparation: [HIS271Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS378H1 - America in the 1960s

Hours: 24L

A survey of one of the most turbulent decades in American history. Examines the political, social, economic and cultural revolutions that transformed the face of America.

Prerequisite: [HIS271Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS379H1 - Vietnam at War

Hours: 24L

This course examines war in modern Vietnam, beginning with Vietnamese nationalism in the 19th century to the conflicts with France, the United States, and China. We will consider the military, political, economic, and cultural contexts of these complex and interconnected wars, especially from the viewpoint of the Vietnamese people.

Prerequisite: 1.0 HIS credit in any field excluding [HIS262H1](#)

Exclusion: [HIS400H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS380H1 - Chinese Canadian History

Hours: 24L

Explores histories of Chinese in Canada, and how scholars have researched, interpreted and analyzed them in ethnic, multicultural, transnational and diasporic contexts. Students will be exposed to a wide range of research approaches including: archives, oral history, community studies, visual studies, popular culture, racial-ethnic studies, and food studies. Chinese in Greater Toronto will be a focus.

Recommended Preparation: [HIS266H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS381H1 - Youth in the Early Modern World

Hours: 36L

Adolescence is a time of adaptation between childhood and adulthood, and it's often described as a modern invention. This course will look at how people in their teens and twenties navigated social demands and expectations around work, law, education, and marriage in the period 1400-1700. The course will address issues around biology, gender, violence, sexuality, mobility, and forced labour, with attention to comparing experiences between distinct traditions in different parts of the early modern world.

Prerequisite: 4.0 credits

Exclusion: [HIS357Y1](#)

Recommended Preparation: Any one of [HIS205H1](#)/[HIS220Y1](#)/[HIS230H1](#)/[HIS243H1](#)/[HIS244H1](#)/[HIS265Y1](#)/[HIS280Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS382H1 - China from the Mongols to the Last Emperor

Hours: 24L

This course traces the history of Chinese empire from its political reorganization, economic expansion, and cultural efflorescence in the 11th century, through its peak of power in the 18th century, and to its decline during the 19th. We will consider how these centuries broke with as well as continued previous developments, and how they have influenced Chinese and world history in the last 150 years.

Prerequisite: [HIS280Y1](#)/[EAS103H1](#)/[EAS209H1](#) or comparable course in E. Asian/Chinese history

Breadth Requirements: Society and its Institutions (3)

HIS383Y1 - Women in African History

Previous Course Number: HIS383H1

Hours: 48L

This course subjects our increasing knowledge about African women's history from the mid-19th century to the present to critical analysis. It goes beyond restoring women to history and seeing African women as victims impacted upon and struggling against colonialism and

neo-colonialism. It examines how African women's lived experiences have been represented, packaged, and delivered to different audiences.

Prerequisite: [HIS295Y1](#)/[HIS297Y1](#)/[AFR150Y1](#)/[AFR250Y1](#)/[AFR351Y1](#)/[POL301Y1](#) or permission from the Instructor

Exclusion: [HIS383H1](#)/[HISC97H3](#)

Breadth Requirements: Society and its Institutions (3)

HIS384H1 - The Baltic Sea Region from the Vikings to the Age of Nationalisms

Hours: 24L

This course traces political, cultural and socio-economic developments in North-Eastern Europe, the Baltic Sea region, from the Viking Age to the end of the 19th century. Topics include the crusades, the Hanseatic League and trade, the Reformation, the struggle for hegemony between the Swedish and Russian empires, the Enlightenment, national movements, and industrialization.

Prerequisite: 9.0 credits including 1.0 HIS credit

Recommended Preparation: A course in European History

Breadth Requirements: Society and its Institutions (3)

JHA384H1 - Japan in the World, Mid-16th to Mid-20th century

Hours: 24L

This course examines Japan within the context of world history from the mid-16th to the mid-20th century. Rather than seek comprehensive coverage of Japan's national history along a linear timeline, we will use Japan as a lens through which to consider key moments in the history of the modern world.

Prerequisite: One course from: [HIS102Y1](#), [HIS103Y1](#), [HIS107Y1](#), [HIS241H1](#), [HIS242H1](#), [HIS244H1](#), [HIS250H1](#), [HIS250Y1](#), [HIS271Y1](#), [HIS280Y1](#), [HIS281Y1](#), [HIS282Y1](#), [HIS283Y1](#), [HIS291H1](#), [HIS291Y1](#), [HIS292H1](#), [HIS292Y1](#), [HIS297Y1](#), or 1.0 credit from [CAS200H1](#), [CAS201H1](#), [CAS202H1](#), [CAS310H1](#), [CAS320H1](#).

Breadth Requirements: Society and its Institutions (3)

JMH385H1 - Islamic Law and the Modern State

Previous Course Number: NMC385H1

Hours: 24L

What happens to the shari'a when it is applied by modern nation-states? This course introduces students to the way states, with Muslim majorities and minorities, from Canada to Malaysia, passing by Nigeria, Palestine, Iran, and Pakistan approach, accommodate, or apply Islamic law. We also discuss the way Muslims, lay and scholarly, talk about, practice, and follow Islamic law under modern states. Based on an examination of law in practice, we will be able to theorize modern transformations of the shari'a and provincialize the modern state and its legal regime.

Prerequisite: NMC103H1/ RLG204H1

Breadth Requirements: Thought, Belief and Behaviour (2)

HIS386H1 - Fascism

Hours: 24L

A comparative and transnational examination of fascist movements and regimes in Europe during 1919-1945. Beginning with Mussolini in Italy and Hitler in Germany, this course analyzes manifestations of the phenomenon in various European countries, including France, Spain, the Baltic states, Central Europe and Scandinavia. We analyze the factors that led to fascist movements obtaining power in certain countries and to their failure in others. Collaboration with Nazi Germany during the Second World War is also explored. Finally, we discuss whether the concept of 'generic' fascism can also be applied to other regions and periods.

Prerequisite: 9.0 credits, including 1.0 HIS credit excluding HIS262H1

Exclusion: HIS389H1 (Topics in History: Fascism), offered in Winter 2018 and Winter 2019

Recommended Preparation: A course in European History

Breadth Requirements: Society and its Institutions (3)

HIS387H1 - France, 1610-1848

Previous Course Number: HIS388Y1

Hours: 24L

This course considers the history of France, from the rise of absolutist monarchy under the seventeenth-century, Bourbon monarchs, through the Enlightenment, the Revolution and Napoleonic Empire, and the Restoration, to the fall of the constitutional monarchy in 1848.

Prerequisite: one HIS/FRE course

Exclusion: HIS388Y1

Breadth Requirements: Society and its Institutions (3)

HIS388H1 - France Since 1830

Previous Course Number: HIS388Y1

Hours: 24L

A study of French society, politics and culture from the Paris Commune to the 1990s. Special attention is paid to watersheds like the Dreyfus Affair and the Vichy regime, to issues of regionalism/nationalism, cultural pluralism, women's rights, intellectual and cultural trends, and decolonization.

Prerequisite: EUR200Y1/one course in HIS/FRE

Exclusion: HIS388Y1

Breadth Requirements: Society and its Institutions (3)

HIS389H1 - Topics in History

Hours: 24L

In-depth examination of historical issues. Content in any given year depends on the instructor and further prerequisites vary from year to year. See History website for more details.

Prerequisite: 4.0 credits, including 1.0 HIS credit excluding HIS262H1

HIS389Y1 - Topics in History

Hours: 48L

In-depth examination of historical issues. Content in any given year depends on instructor. See History website for more details.

Prerequisite: 9.0 credits, including 1.0 HIS credit excluding HIS262H1. Further prerequisites vary from year to year, consult the department.

HIS390H1 - Slavery in Latin America

Hours: 24L

This seminar focuses on the history of African slavery in Latin America from its origins in the fifteenth century to its abolition in the nineteenth century. Readings will draw from primary sources and historical scholarship related to a range of topics, including the slave trade, gender, religious and cultural practices, and emancipation.

Prerequisite: HIS106Y1/ HIS231H1/ HIS291H1/ HIS292H1

Breadth Requirements: Society and its Institutions (3)

HIS393H1 - Digital History

Hours: 24L

Explores implications for history and its methods of the shift from print to digital sources. Imparts introductory skills in the manipulation digital media, such as the use of maps, GIS and big data.

Prerequisite: 200-level History course/ [DHU235H1](#)/
[DHU236H1](#)

Exclusion: [HIS389H1](#) (Topics in History: Digital History), offered in Summer 2015, Winter 2016, and Winter 2017

Breadth Requirements: Society and its Institutions (3)

JHA394H1 - The Asia Pacific War

Hours: 24L

This course examines the Second World War in the Asia Pacific region and highlights: (1) how imperialism and colonialism of both the Euro-American and Japanese varieties were central to the War's outbreak, conduct, and "resolution"; (2) various "local" rather than simply national experiences and memories of the War, including those of marginalized groups in Japan and its colonies, "comfort women," victims of war atrocities, Asian North Americans, African Americans, and Pacific Islanders.

Prerequisite: One course from: [HIS107Y1](#), [HIS242H1](#), [HIS250H1](#), [HIS251H1](#), [HIS263Y1](#), [HIS271Y1](#), [HIS280Y1](#), [HIS281Y1](#), [HIS282Y1](#), [HIS283Y1](#), [HIS284Y1](#), [HIS292Y1](#), [HIS311Y1](#), [HIS317H1](#), [HIS328H1](#), [HIS338H1](#), [HIS343H1](#), [HIS343Y1](#), [HIS344H1](#), [HIS344Y1](#), [HIS351Y1](#), [HIS361Y1](#), [HIS377H1](#), [HIS385H1](#), [HIS385Y1](#), or 1.0 credit from [CAS200H1](#), [CAS201H1](#), [CAS202H1](#), [CAS310H1](#), [CAS320H1](#).

Recommended Preparation: One or more courses on Japan, China, Korea, or Southeast Asia in any department.

Breadth Requirements: Society and its Institutions (3)

HIS394H1 - 20th and 21st Century African Icons: Media and Biography

Hours: 24L

Superseding 19th century European missionary and explorers' accounts of Africa; media in the 20th and 21st centuries have unequivocally played a key role in shaping the globe's views of Africa and Africans. In 2005, BBC Focus on Africa put out an impressive list of more than 100 "African Icons". Since then, a number of websites have come up with various lists of African icons. Who are

the African icons and what makes them icons? How have the media contributed in making them icons?

Prerequisite: [HIS295Y1](#)/ [HIS297Y1](#)/ [HIS383H1](#)/
[HIS383Y1](#)/ [HIS386H1](#)/ [HIS481H1](#)/ [NEW160Y1](#)/
[NEW261Y1](#)/ [AFR351Y1](#)/ [POL301Y1](#)/ [POL361H1](#) or by permission from the Instructor.

Breadth Requirements: Society and its Institutions (3)

HIS395H1 - Independent Studies

This course provides an opportunity for exceptional third-year students to undertake an independent research project on a topic for which there is not a suitable course offering. Students must find an appropriate supervisor from the Department, submit a proposal, and receive approval for the project. Students must be enrolled in either a History Specialist or Major program; have taken at least 3.0 HIS credits with a B+ average; and have approval of an instructor willing to supervise the project. Not eligible for CR/NCR option.

Prerequisite: 9.0 credits (Year 3 or higher) including a 77% average in 3.0 HIS credits (excluding [HIS262H1](#))

HIS395Y1 - Independent Studies

This course provides an opportunity for exceptional third-year students to undertake an independent research project on a topic for which there is not a suitable course offering. Students must find an appropriate supervisor from the Department, submit a proposal, and receive approval for the project. Students must be enrolled in either a History Specialist or Major program; have taken at least 3.0 HIS credits with a B+ average; and have approval of an instructor willing to supervise the project. Not eligible for CR/NCR option.

Prerequisite: 9.0 credits (Year 3 or higher) including a 77% average in 3.0 HIS credits (excluding [HIS262H1](#))

HIS396H1 - The Progressive Era and Rise of Big Business in America

Hours: 24L

This course examines the rise of big business in America and its relationship to social and economic changes in United States in the so-called Progressive Era (roughly 1880-1920). We will focus on several themes: the evolution and characteristics of big business; rise of organized labor; evolution of business-government relations; social and economic reform movements; and the changing status of immigrants, African Americans, and women (both white and African-American). In short, we

will be studying a pivotal moment in the transformation of modern American society.

Exclusion: [HIS389H1](#) (Topics in History: Business and Society), offered in Fall 2016 and [HIS372H1](#) (Topics in U.S. History: The Progressive Era and Rise of Big Business), offered in Winter 2018

Recommended Preparation: [HIS271Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS397H1 - Political Violence and Human Rights in Latin America

Hours: 24L

This course will explore human rights theory and practice from a Latin American perspective. There will be a focus on the local derivation, development and impact of the movement for human rights in Latin America. The course will focus on the history of organized protest against violence in the twentieth century.

Prerequisite: [HIS292H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities....> Not eligible for CR/NCR option.

HIS398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities....> Not eligible for CR/NCR option.

HIS399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities....> Not eligible for CR/NCR option.

HIS400H1 - The American War in Vietnam

Hours: 24S

This course examines the French and American Wars (1945-75) in Vietnam and its effects on the population of Vietnam and Southeast Asia. It begins with a brief overview of pre-colonial Vietnamese history and moves into a study of the impact and legacies of colonial rule and centres on the impact of the Wars on the cultures, economies, and societies of Southeast Asia.

Prerequisite: [HIS379H1](#) and 14.0 credits or permission of the instructor

Exclusion: [HIS315H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS401H1 - The Cold War through its Archives

Previous Course Number: HIS401Y1

Hours: 24S

The course reviews the history of the Cold War in light of formerly-secret archival documents. Examples include the US White House Tapes and Venona decrypts; massive declassification of records in the ex-Soviet bloc; and parallel developments in China, Cuba, and other Communist states. Archival discoveries have cast new light, not just on individual episodes (e.g., Cuban Missile Crisis of 1962, Soviet invasion of Afghanistan in 1979) but on the origins, strategies, and driving forces of this 45-year conflict. The focus will be mainly on the superpowers and their alliance systems.

Prerequisite: [HIS311Y1](#)/ [HIS344H1](#)/ [HIS344Y1](#)/ [HIS377H1](#)

Exclusion: [HIS401Y1](#), [HIS306H5](#)

Breadth Requirements: Society and its Institutions (3)

HIS402H1 - Sephardim: The Jews of Spain and their Diasporas

Hours: 24S

This course follows the journey of Sephardic Jews from their beginnings in Iberia to their diasporas in the Ottoman Empire and the New World. We begin by studying Jewish life and culture in Iberia itself. We then study the expulsion from Spain and Portugal and how Sephardic Jews managed to reconstruct their communities and maintain their identity in new lands until the Nineteenth Century. Themes discussed include mysticism and messianism, conversos and heresy, and trade and exploration. We will conclude by looking at how Sephardic Jews shaped ideas

of modernity that were distinct from those of their Ashkenazi coreligionists.

Prerequisite: 9.0 credits including 1.0 HIS/ JHA/ JHM/ JHN/ JIH/ JSH credit

Breadth Requirements: Society and its Institutions (3)

HIS403H1 - Jews and Christians in Medieval and Renaissance Europe

Previous Course Number: HIS403Y1

Hours: 24S

The course focuses on aspects of Jewish-Christian relations ca.300-1600, such as royal and ecclesiastical Jewish policies; religious polemics; intellectual collaboration; social and economic interaction; anti-Judaism and religious violence. (Joint undergraduate-graduate)

Exclusion: HIS403Y1

Recommended Preparation: HIS208Y1/ HIS220Y1/ HIS243H1/ HIS322Y1/ HIS357Y1

Breadth Requirements: Society and its Institutions (3)

HIS404H1 - Senior Seminar in U.S. History

Hours: 24S

Selected topics in U.S. history. Topics in any given year depend on the instructor. Please see History website for details.

Prerequisite: HIS271Y1

Breadth Requirements: Society and its Institutions (3)

HIS405Y1 - Canadian Foreign Relations

Hours: 48S

A course on Canadian external relations since 1945. Topics include Canada and the Cold War, the Korean War, the Suez crisis and the war in Vietnam, membership in international organizations, and bilateral relations with other countries. (Joint undergraduate-graduate)

Prerequisite: HIS311Y1/ POL312Y1

Breadth Requirements: Society and its Institutions (3)

HIS406H1 - Advanced Topics in Gender History

Hours: 24S

An in-depth examination of issues in gender history. Content in any given year depends on instructor. See History website for more details.

Breadth Requirements: Society and its Institutions (3)

HIS407H1 - Imperial Germany, 1871-1918

Hours: 24S

Historiographical controversies and the latest empirical findings concerning social conflict and political mobilization under Bismarck and Wilhelm II. Problems raised by competing schools of interpretation include definitions of the authoritarian state, bourgeois hegemony, localism and regionalism, radical nationalism, workers' culture, and gender relations. (Joint undergraduate-graduate)

Prerequisite: HIS317H1, HIS330H1. Students who do not meet the prerequisite are encouraged to contact the Department.

Exclusion: HIS407H5

Breadth Requirements: Society and its Institutions (3)

HIS408H1 - Topics in Environmental History

Hours: 24S

This advanced undergraduate seminar will explore themes in environmental history. Thematic focus will vary from year to year, and may include extinction, nuclear power in environmental history, empire and environment, toxicity and contamination, climate change, the Columbian exchange, the Anthropocene, agriculture, animals, and/or other themes. Time period and geographical focus will also vary in keeping with the thematic focus of this course.

Prerequisite: HIS218H1 or HPS316H1

Breadth Requirements: Society and its Institutions (3)

HIS409H1 - Spas and Water Cures

Hours: 24S

This fourth-year seminar immerses students into the rich world of mineral water cures. It explores the relationship

between the medical sciences and society, and the connections between prescriptive and normalizing medical rituals and sites of pilgrimage, capitalism, and sociability. The seminar will also focus on shifting medical meanings, on gender dynamics at these sites, and on uses and practices surrounding hot water springs, as well as varied experiences of spa towns as sites of leisure and tourism. The course is transnational and features case studies in Mexico, Madagascar, Britain, Germany, Tunisia, Japan, France, Austria, Hungary, Greece, and Canada.

Prerequisite: 2.0 HIS credits

Breadth Requirements: Society and its Institutions (3)

HIS411H1 - Great Trials in History

Hours: 24S

This seminar course will study a handful of great trials in close detail. Using materials from the modern period in Europe and North America, we will look at the clash of ideas represented in these high-profile cases, the historical setting in which they were embedded, the human drama, legal and sometimes constitutional issues, and their impact both on their societies and our own.

Breadth Requirements: Society and its Institutions (3)

HIS413H1 - Slave Emancipation in the Atlantic World

Hours: 24S

This course explores the long process of the 'unfinished revolution' of abolition in the Atlantic World from the 18th-late 19th century Atlantic World. It will take a comparative and transnational approach, with materials that include primary printed sources, classic texts, current historiography, literature, explorations of the history of emancipation through digital and visual culture. We will examine scholarship and historical debates about abolition in the Caribbean, North and South America, West Europe and Africa.

Prerequisite: 0.5 credit from: [HIS221H1](#), [HIS230H1](#), [HIS231H1](#), [HIS244H1](#), [HIS245H1](#), [HIS265Y1](#), [HIS271Y1](#), [HIS291H1](#), [HIS295Y1](#), [HIS357Y1](#), [HIS373H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS414H1 - Down and Out in Medieval Europe

Hours: 24S

Explores the life conditions of individuals on the lower echelons of medieval society (the poor, servants and apprentices, the exiled, prisoners, slaves, foreigners and lepers). In parallel, we will discuss the various conceptions of poverty that prevailed in the Middle Ages. These objectives will allow us to glimpse the European Middle Ages from an unusual angle as well as reflect on important socio-economic and religious changes.

Recommended Preparation: A course on the Middle Ages in any discipline

Breadth Requirements: Society and its Institutions (3)

HIS415Y1 - Nationalism & Memory in Modern Europe

Previous Course Number: HIS415H1

Hours: 48S

Investigates the modern concept of the nation and its connections to the idea of collective memory in twentieth-century Europe. Through reading and discussing seminal works on nationalism and national memory, we will discuss the connections between modern notions of nation and practices of remembering.

Prerequisite: Two history courses from the following:

[HIS102Y1](#), [HIS103Y1](#), [HIS109Y1](#), [HIS241H1](#), [HIS242H1](#), [HIS243H1](#), [HIS244H1](#), [HIS245H1](#), [EUR200Y1](#), [HIS317H1](#)

Exclusion: [HIS415H1](#)

Recommended Preparation: [HIS102Y1](#), [HIS109Y1](#), [HIS241H1](#), [HIS242H1](#), [HIS243H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS416H1 - Orientalism and Nationalism in Nineteenth-Century Germany

Hours: 24S

In 1771, with the translation of the Zend-Avesta by the French Scholar Anquetil-Duperron, a new era opened in German national culture. From the philosophy of Johann Gottfried von Herder to the novels of Thomas Mann, this course analyzes the ways in which German writers defined the substance and place of national culture in their writings about India, Central Asia and the East.

Prerequisite: [HIS241H1](#), and one of [HIS242H1](#)/[HIS317H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS417H1 - History of Sex Work

Previous Course Number: HIS417Y1

Hours: 24S

This seminar explores the historical effects of the "world's oldest profession" in Canada and beyond. Using a range of texts, including film, memoirs, oral history and visual culture, it seeks to enhance both historical and contemporary discussions of the sex trade by examining its rich, difficult and problematic pasts. Seminar readings and discussions will examine the lives and experiences of multiple sex trade-involved populations, from affluent 19th-century madams to streetwalkers and queer and trans communities.

Prerequisite: HIS263Y1/ HIS264H1

Exclusion: HIS417Y1

Breadth Requirements: Society and its Institutions (3)

HIS418H1 - Themes in Canadian Environmental History

Hours: 24S

Environmental historians study the reciprocal relationship between humans and nature over time. This course examines key themes in the history of Canada's environment. Possible topics include food, energy, pollution, cities, parks, and environmental movements. Specific themes vary by year, depending on the focus of the instructor. Strong emphasis is placed on reading and research.

Prerequisite: 9.0 credits

Recommended Preparation: HIS263Y1/ HIS264H1

Breadth Requirements: Society and its Institutions (3)

HIS419H1 - Canada By Treaty: Alliances, Title Transfers and Land Claims

Hours: 24S

A detailed study of the treaty process between indigenous peoples and newcomers in Canadian history, with examination of the shift between alliance treaties to land surrender agreements from the colonial period through to the signing of recent treaties including the Nunavut Land Claims Agreement and the Nisga'a Final Agreement.

Prerequisite: HIS263Y1/ HIS264H1

Breadth Requirements: Society and its Institutions (3)

HIS421H1 - Oral History

Hours: 24S

Exploration of oral history interview research methods, their contributions to the History field, and practical training in the skills and art of doing oral history. This is a research workshop course, oriented to developing student research projects, and each student will do oral history research. Topics include: memory, interviewing, ethics, interpreting oral testimonies and issues in community-engaged research.

Breadth Requirements: Society and its Institutions (3)

HIS422H1 - Early Modern English Popular Culture, 1500-1800

Hours: 24S

Deals with issues of orality, literacy, gender, class, cultural bricolage and vernacular epistemology – the constituents of popular, as opposed to elite knowledge - through the study of folklore, magic, religion, drink, sex, riot and festivity in early modern England. Some background in medieval and/or early modern history or literature is highly recommended. Extensive work will be undertaken with primary printed sources.

Prerequisite: HIS101Y1/ HIS109Y1/ HIS220Y1/ HIS243H1/ HIS244H1/ HIS368H1/ HIS337H1/ HIS349H1/ HIS357Y1

Exclusion: HIS496H1 (Topics in History: Early Modern English Popular Culture, 1600-1800), offered in Summer 2018

Breadth Requirements: Society and its Institutions (3)

HIS423H1 - Social History of Medicine in the 19th & 20th Centuries

Hours: 24S

Introduces students to current issues in the social history of medicine and some of the major developments in the modern history of the discipline. The format is class discussion based on themes covered in the course textbook, covering such topics as the history of the doctor-patient relationship, changes in physicians' social status, changing attitudes toward the body, and the evolution of various medical and surgical specialties including obstetrics and gynecology. (Joint undergraduate-graduate).

Exclusion: HIS423Y1

Breadth Requirements: Society and its Institutions (3)

HIS424H1 - Violence in Medieval Society

Hours: 24S

This seminar explores the social function and meaning of violence in medieval society, and the development of rituals and institutions to control violence. Among the topics treated: Germanic blood feud, aristocratic violence and chivalry, criminal justice systems, violence against minorities, and violence and gender. (Joint undergraduate-graduate)

Prerequisite: [HIS220Y1](#)/ [HIS320H1](#)/ [HIS321H1](#)/ [HIS322H1](#)

Exclusion: [HIS327Y5](#)

Breadth Requirements: Society and its Institutions (3)

HIS425H1 - From the Weimar Republic to Nazi Germany: How Do Democracies Die?

Hours: 24S

This seminar on Weimar and National Socialist Germany analyzes the advent of the country's first democracy after WWI, its destruction between 1929 and 1933 and the subsequent building of the National Socialist dictatorship. How does the destruction of Germany's first democratic republic provide a map for how democracies die? What lessons can Germany's history provide for the current political moment? In analyzing the country's movement from democracy to dictatorship an interdisciplinary variety of texts will be studied, covering topics from political violence and economic instability, to the languages of civil society and the importance of trust in a democratic polity.

Prerequisite: 14.0 credits including 2.0 HIS credits

Exclusion: [HIS496H1](#) (offered as "Weimar and Nazi Germany: How do Democracies Die?") taken in Fall 2019, 2022.

Recommended Preparation: At least one of [HIS241H1](#), [HIS242H1](#), [HIS330H1](#), or [HIS317H1](#).

Breadth Requirements: Society and its Institutions (3)

HIS426H1 - Early Medieval Italy 300-1000 CE

Hours: 24S

This seminar examines major developments in Italy 300-1000, including the Christianization of Italy, the collapse of Roman rule, the establishment of several barbarian successor kingdoms, and changes in architecture, art and literature in a period known as Italy's Dark Ages.

Breadth Requirements: Society and its Institutions (3)

HIS427H1 - History and Historiography in the Golden Legend

Hours: 24S

The Golden Legend or Readings on the Saints, compiled by Jacobus de Voragine c. 1260, serves as the basis for a seminar on the relation of history and legend as understood in the High Middle Ages. (Joint undergraduate-graduate)

Prerequisite: [HIS220Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS428H1 - Medieval Institutes of Perfection

Hours: 24S

The first goal of this seminar is to help students read the sources with a more critical eye, especially narrative sources (Lives of Saints) and normative sources (rules and customs). The second goal is to study the evolution of the monastic ideal from its origin to the 12th century. (Joint undergraduate-graduate)

Prerequisite: A course specifically on the Middle Ages such as [HIS220Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS430H1 - The Two Germanies and the Cold War, 1949-1989

Hours: 24S

This course explores central themes of the field of postwar German and Cold War history from national, European and global history perspectives. It familiarizes students with significant events, texts, dates and actors in its analysis of the histories of the two postwar German states and explores German history as a microcosm of Cold War relations. In analyzing the two Germanies after 1949 an interdisciplinary variety of texts will be studied, covering topics from diplomacy and economy, to gender, memory, politics and geopolitics.

Prerequisite: 14.0 credits including 2.0 HIS credits

Exclusion: [HIS496H1](#) (offered as "The Two Germanies and the Cold War, 1949-1990") taken in Winter 2019, (offered as "The Two Germanies and the Cold War") taken in Fall 2020.

Recommended Preparation: [HIS241H1](#), [HIS242H1](#), [HIS330H1](#), [HIS317H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS431H1 - Historical Memory and Transitional Justice in Latin America

Hours: 24S

Transitional justice encompasses a broad range of experiences, including amnesties, peace agreements, memorial building, and criminal prosecutions, as well as truth and reconciliation commissions. Enthusiasm for transitional justice is understandable, and critical reflection on the politics of memory is imperative. In what ways has memory in Latin America been mobilized by various groups to confront serious violations of human rights? We will address the connections between memory, accountability and social reconstruction, and each student will be asked to write a research paper on a case study or topic of their choice.

Prerequisite: 14.0 credits including 2.0 HIS/ JHA/ JHM/ JHN/ JIH/ JSH credits

Breadth Requirements: Society and its Institutions (3)

HIS432H1 - Topics in Medieval History

Hours: 24S

The students define together with the professor eight different topics (e.g. relics, masculinity, leprosy, clothes, recluses, peasants houses, gynecology and the peace of God). Each topic is approached through a class discussion, on the basis of a common corpus of secondary sources, plus presentations by the students.

Prerequisite: A course in Medieval history such as HIS220Y1

Breadth Requirements: Society and its Institutions (3)

HIS433H1 - Polish Jews Since the Partition of Poland

Hours: 24S

To explore the history of Polish Jews from the Partitions of Poland to the present time, concentrating on the 19th and the first half of the 20th centuries: situation of Polish Jews in Galicia; Congress Kingdom of Poland; Prussian-occupied Poland before 1914; during World War II; and post-war Poland. Focus on an analysis of primary sources. (Joint undergraduate-graduate)

Prerequisite: HIS208Y1/ HIS251Y1/permission of the instructor

Breadth Requirements: Society and its Institutions (3)

HIS434Y1 - Kievan Rus

Hours: 48S

The origin of Rus, international trade, the impact of nomadic peoples, the introduction of Christianity, the economic system and the problem of feudalism, the political structure and the dilemma of princely succession; literature and architecture; the displacement of political power centres and depopulation, the preservation of the Kievan heritage. (Joint undergraduate-graduate)

Prerequisite: HIS220Y1/ HIS250H1/ HIS250Y1/ HIS320H1/ HIS321H1/ HIS322H1

Breadth Requirements: Society and its Institutions (3)

HIS435H1 - Themes in Toronto History

Hours: 24S

This course will examine aspects of Toronto's history. It is not a general survey of Toronto history; instead, the course will normally revolve around a specific theme or group of themes. Specific themes vary by year, depending on the focus of the instructor. Strong emphasis will be placed on reading and research.

Prerequisite: HIS263Y1/ HIS264H1

Breadth Requirements: Society and its Institutions (3)

HIS436H1 - Stalinist Terror

Hours: 24S

This research seminar explores topics and issues of violence in the Soviet Union in the 1930s, beginning with forced collectivization and ending with the Great Terror. The seminar focuses on new archivally-based research and aims to contextualize Stalinist terror within larger theories of political and social violence.

Prerequisite: HIS250Y1 (B or higher) or HIS351Y1 (B or higher)

Breadth Requirements: Society and its Institutions (3)

HIS438H1 - Inquisition and Society in Medieval and Early Modern Europe

Hours: 24S

Focusing on the institution of the inquisition, this seminar explores the response of ecclesiastical and secular authorities to religious heterodoxy. Among the groups prosecuted by the inquisition discussed: Cathar heretics in

France, crypto-Jews and crypto-Muslims in Spain, and witches in Italy.

Recommended Preparation: [HIS220Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS439H1 - Russia's Empire

Hours: 24S

The collapse of the Soviet Union along national lines brought about a renewed interest in the non-Russian parts of the Imperial Russian state. This so-called “imperial turn” has altered the ways that we think about Tsarist Russian rule. In this course we address different approaches to the study of Empire as reflected in the Russian case from its origins in the sixteenth century until the collapse of the Tsarist state — but not precisely of its empire — in 1917.

Prerequisite: [HIS325H1](#), [HIS351H1](#). Students who do not meet the prerequisites are encouraged to contact the Department.

Breadth Requirements: Society and its Institutions (3)

HIS440H1 - Maps and History

Hours: 24S

Examines the use of maps through the ages to depict spatial relationships and political, social, or cultural authority. Explores the visual display of quantitative information, the evolution of historical atlases, and cartographic crime. Such topics as Lebensraum and gerrymandering illustrate how maps can distort historical processes and communal relationships.

Recommended Preparation: At least three History courses at the 200/300 level

Breadth Requirements: Society and its Institutions (3)

HIS442H1 - Jews and the Holocaust in the Soviet Union

Hours: 24S

This course is an advanced research seminar in Soviet history. It will explore the Jewish experience in the Soviet Union, with a focus on the Holocaust. The seminar will begin with an examination of the history of Jews in the Russian Empire and the Soviet Union in the years leading up to the Second World War. Then the course will pivot directly to the topic of the Holocaust on Soviet soil. How did the Holocaust in the “east” differ from the Holocaust in the “west”? How did the conduct of war condition

genocide in the Soviet Union? How did Soviet Jews and non-Jews respond to the German genocide? What was the response of Stalin and the Soviet government to the Holocaust? How is the Holocaust remembered by the states and people of the former Soviet Union.

Prerequisite: [HIS351Y1](#) or a course on the Holocaust

Breadth Requirements: Society and its Institutions (3)

HIS443H1 - Space and Sense in the Early Modern World

Hours: 24S

How did early moderns experience sense and space and how did the expanding cultural, political, and social horizons of the period emerge from and shape those experiences? This course explores Florence, Amsterdam, Boston, Manila to compare how experiences of space and sense varied by age, gender, race, and class.

Prerequisite: [HIS243H1](#)/ [HIS244H1](#)/ [HIS357Y1](#). Students who do not meet the prerequisite are encouraged to contact the instructor.

Breadth Requirements: Society and its Institutions (3)

HIS444H1 - Topics in Jewish History

Hours: 24S

Selected topics on a specific period or theme in Jewish history. Topic in any given year will depend on the instructor. Please see History website for details.

Prerequisite: A course in modern European or Jewish history

Recommended Preparation: A course in Jewish history

Breadth Requirements: Society and its Institutions (3)

HIS445H1 - Nationalism

Hours: 24S

What is a nation? Are nations ancient or modern, unchanging or malleable? Do nations create states, or does the state create the nation? This course seeks to answer these questions through an examination of nationalism, primarily in Europe, from the 1700s through the present.

Prerequisite: 2.0 HIS credits in European history. Students who do not meet the prerequisite are encouraged to contact the Department.

Breadth Requirements: Society and its Institutions (3)

HIS446H1 - Gender and Slavery in the Atlantic World

Previous Course Number: HIS446Y1

Hours: 24S

The course examines the relationship between gender and the experience of slavery and emancipating several Atlantic world societies from the 17th-19th centuries. Areas to be covered are the Caribbean, Brazil, the U.S. South, West and South Africa and Western Europe.

Prerequisite: HIS291H1/ HIS294Y1/ (HIS230H1, HIS231H1)/ HIS295Y1

Exclusion: HIS446Y1

Breadth Requirements: Society and its Institutions (3)

HIS449Y1 - Ukrainian National Revival

Hours: 48S

The role of the intelligentsia in East European national revivals; the ethnographic and literary revival; the language question; the press and cultural organizations; education; religion; and political movements. (Joint undergraduate-graduate)

Recommended Preparation: One of the following: JHP204Y1/ HIS241H1/ HIS251Y1/ HIS445H1

Breadth Requirements: Society and its Institutions (3)

HIS450H1 - Senior Seminar in African Histories

Hours: 24S

Senior seminar discussing readings on a specific period, aspect or themes in African history. Topics in any given year depend on the instructor.

Prerequisite: HIS295Y1/ 1.0 credit alternative African History course

Breadth Requirements: Society and its Institutions (3)

HIS451H1 - World War II in East Central Europe

Hours: 24S

The fall of the Versailles system, German and Soviet diplomatic and military activities and their occupational policies in East Central Europe during World War II, economic exploitation, collaboration, resistance, and genocide in the discussed region, its liberation and

sovietization in 1944-1945. (Joint undergraduate-graduate)

Prerequisite: EUR200Y1/ HIS251Y1/ HIS334H1

Breadth Requirements: Society and its Institutions (3)

HIS453H1 - Slavery in North America

Hours: 24S

Slavery has existed in many human societies. Beginning in the sixteenth century, European empires pioneered a novel system of racialized chattel slavery that ensnared unknown numbers of Indigenous people and spurred the transportation of millions of African captives to various plantation zones in the Americas. This course examines the history of slavery in North America, Canada, and the United States (c. 1500-1865). Topics include Indigenous and Atlantic slaveries; slavery and the rise of British, French, and Spanish colonialism in North America; racial formation; the Atlantic and domestic slave trades; gender and reproduction; enslaved people's politics and social worlds; and the gradual abolition of slavery in the United States and Canada (1780-1865).

Prerequisite: HIS271Y1/ (HIS221H1, HIS222H1).

Students who do not meet the prerequisite are encouraged to contact the instructor.

Exclusion: HIS404H1 (Senior Seminar in U.S. History: American Slavery) offered in Winter 2021 and HIS404H1 (Senior Seminar in U.S. History: Slavery in North America) offered Winter 2023.

Breadth Requirements: Society and its Institutions (3)

HIS455Y1 - Hacking History: Digital Projects Capstone Class

Hours: 48S

This course provides a unique opportunity to grapple with the challenges of public history, while exploring new methods and technologies in the digital humanities. Each year, we partner with one or more community groups to create historical websites which endure well beyond the school year. Topics vary annually.

Prerequisite: HIS393H1, equivalent experience, or instructor's permission

Recommended Preparation: Basic HTML/CSS skills as learned in self-paced online introductions

Breadth Requirements: Society and its Institutions (3)

HIS457H1 - The French Revolution and the Napoleonic Empire

Hours: 24S

Explores the central themes in the history of the French Revolution: the causes of the Revolution; the contested varied efforts to build a new regime; the invention of a novel republican political culture; counterrevolution and Terror; the Haitian Revolution; Napoleon and the Empire; the Revolution as a global phenomenon; the Restoration; the Revolution's legacy today.

Prerequisite: [HIS243H1](#)/ [HIS244H1](#)/ [HIS319H1](#)/ [HIS341Y1](#)/ [HIS387H1](#)

Exclusion: [HISC26H3](#)

Breadth Requirements: Society and its Institutions (3)

HIS459H1 - Soviet History and Film, 1921-1946

Hours: 24S

The history of Soviet cinema and the importance of film as a historical source. Documentary and fiction film; editing, narration, and sound; film distribution and exhibition; the Soviet school of montage and socialist realism; nationality and gender; the Soviet musical comedy of the Stalin era; resistance and dissidence.

Prerequisite: [CIN105Y1](#)/ [HIS250Y1](#)/ [HIS250H1](#)/ [HIS335H1](#)

Exclusion: [HIS450Y1](#)/ [SLA233H1](#)/ [SLA234H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

HIS460H1 - Soviet History and Film, 1941-1991

Hours: 24S

Soviet film as a historical source and the institutional and ideological history of Soviet film production, distribution, and exhibition. Fiction and documentary film during World War II; the cinema of the Cold War and the Thaw; Soviet new realism and the return of the village; avant-garde cinema of the 1960s-80s; memory and historical revision in late Soviet film. Screenings include never-before-seen archival footage, as well as films and film clips subtitled by the instructor.

Prerequisite: [CIN105Y1](#)/ [HIS250Y1](#)/ [HIS335H1](#)

Exclusion: [HIS450Y1](#)/ [SLA233H1](#)/ [SLA234H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

JIH460H1 - Indigenous Histories of North America

Hours: 24S

This senior seminar takes a regional approach, featuring work written by or in collaboration with Indigenous scholars and Indigenous communities, to draw students into discussion of comparative historiographies, the role of worldview in historical writing and the significant methodological interventions made by Indigenous Studies. Students explore oral history and material culture as sources for writing history and discuss ethical research practices for community-based scholarship. In addition to active participation, each student will write a major paper, approximately 15 pages in length, in the form of a review essay on the historiography of either a region or a topic. This course is a joint graduate/undergraduate seminar.

Prerequisite: [INS200H1](#)/ [INS201Y1](#)/ [INS205H1](#)/ [HIS230H1](#)/ [HIS366H1](#)/ [HIS369H1](#)

Recommended Preparation: [INS390H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS461H1 - Poland in the 20th Century

Hours: 24S

The 20th century has been an age of experiments for Poland. Universal, general problems of democracy, authoritarianism, totalitarianism, communism, socialism, free market and centrally planned economies, are examined, as are the ongoing adjustments made by the Polish people. (Joint undergraduate-graduate)

Prerequisite: [HIS334H1](#)/ [HIS353Y1](#)/permission of the instructor

Breadth Requirements: Society and its Institutions (3)

HIS464H1 - Religion and Violence in Comparative Perspective

Hours: 24S

Examines varying roles of religion in cases of genocide and extreme violence. Seminar proceeds from recent cases (Darfur, Rwanda, wars associated with break-up of Yugoslavia) backward through the 20th century (Cambodia, Indonesia, the Holocaust, Armenians, Herero) and the 19th century (Belgian Congo, Caucasus, native peoples in the Americas).

Prerequisite: one course in HIS/REL/Peace and Conflict (excluding [HIS262H1](#))

Breadth Requirements: Society and its Institutions (3)

HIS465H1 - Gender and International Relations

Previous Course Number: HIS465Y1

Hours: 24S

This seminar explores the use of gender as a category of analysis in the study of international relations. Topics include gendered imagery and language in foreign policymaking; beliefs about women's relationship to war and peace; issues of gender, sexuality, and the military; gender and global governance; gender and the global economy; sexual violence; and contributions of feminist theory to international relations theory.

Recommended Preparation: 0.5 credit at the 300-level in HIS/POL/WGS

Breadth Requirements: Thought, Belief and Behaviour (2)

HIS466H1 - Senior Seminar in Canadian History

Previous Course Number: HIS466Y1

Hours: 24S

Selected topics in a specific period of Canadian history. Content in any given year depends on instructor. Please see the History Department website for complete description.

Prerequisite: HIS263Y1/ HIS264H1 or permission of the instructor

Breadth Requirements: Society and its Institutions (3)

HIS467H1 - French Colonial Indochina: History, Cultures, Texts, Film

Previous Course Number: HIS467Y1

Hours: 24S

Examines French colonial Indochina through several different lenses. Themes include the cross-cultural contact zones between colonial and colonized societies, imperial culture, expressions of colonial power, and forms of opposition. Colonial novels, translated resistance literature, documentaries, and films are utilized as primary sources to be examined critically.

Prerequisite: ANT344Y1/ EAS204Y1/ GGR342H1/ HIS104Y1/ HIS107Y1/ HIS280Y1/ HIS283Y1/ HIS284Y1/ HIS315H1/ HIS388H1/ NEW369Y1

Exclusion: HIS467Y1

Breadth Requirements: Society and its Institutions (3)

HIS468H1 - Commemorations and Public History in Canada, 1800-2000

Hours: 24S

This course explores selected topics in the history of commemoration, public memory, and public history in Canada. Remembering the past has often involved various groups - political, economic, and social elites - who have attempted to create 'pasts' or 'traditions' for themselves and others in society, often as part of creating socio-economic and political hegemony. We also will read about their contestation by women, working-class people, and ethnic and racialized groups to counter the powerful's apparent monopoly on public memory. As well, we will explore how historical memories have shaped and created landscapes, in ways both discursive and material.

Prerequisite: HIS264H1

Exclusion: HIS466H1 (offered as "History of Commemoration in Canada") taken in Winter 2015, Fall 2016 or 2018, (offered as "Commemorations and Public History, Canada, 1800s-2000") taken in Fall 2020 or 2021, (offered as "Commemoration in Canada") taken in Fall 2022.

Breadth Requirements: Society and its Institutions (3)

HIS469H1 - Upper Canada: Creating a Settler Society, 1790s-1860s

Hours: 24S

This course explores selected topics in the history of Upper Canada: its formation in the crucible of transatlantic and imperial warfare, relationships with Indigenous people, the creation of multiple institutions, and colonial leisure and culture. As well as having its own particular local characteristics and features, not least its proximity to the United States, Upper Canada was one of a number of settler societies within the British Empire. The course explores various dimensions of these aspects and considers the relationships between local dynamics and imperial currents.

Prerequisite: HIS264H1/ HIS263Y1

Exclusion: HIS466H1 (offered as "Upper Canada: Creating a Settler Society") taken in Fall 2014, Winter 2016, 2017, 2019, 2022 or 2023, (offered as "Upper Canada") taken in Fall 2019, (offered as "Upper Canada: Creating a Settler Society, 1790s-1860s") taken in Winter 2021.

Breadth Requirements: Society and its Institutions (3)

HIS470H1 - History, Rights, and Difference in South Asia

Hours: 24S

Addressing South Asian history after 1750, this course examines ideas of rights, contract, and the rule of law in colonial and postcolonial contexts. Attention is paid to the intellectual history of rights and the central place of colonial and postcolonial questions within that history. Topics include rights and questions concerning indigenous culture, caste and customary practice, gender and capitalist development.

Prerequisite: A mark of 73% or higher in HIS282Y1 or instructor's permission

Recommended Preparation: Background in political and social theory and some background in South Asia

Breadth Requirements: Society and its Institutions (3)

HIS474H1 - Emancipate Yourself from Mental Slavery? Historical Narratives of Caribbean Decolonization

Hours: 24S

This course is a critical intellectual history of Caribbean decolonization. It begins with the Haitian Revolution, exploring and comparing how history was mobilized to structure anti-colonial theories about the making of postcolonial Caribbean societies. Key conceptual frameworks to be examined include indigenism, noirism, creolization, métissage; Caribbean interpretations of Marxism, Negritude and Pan-Africanism.

Prerequisite: HIS294Y1/(HIS230H1, HIS231H1)

Breadth Requirements: Society and its Institutions (3)

HIS475H1 - Senior Research Seminar

Hours: 24S

In this seminar, students will learn the historical methodology skills required to undertake their major independent research project for future professional use or graduate studies, including the development of a topic, formal literature reviews, and the writing of research and grant proposals. History Specialists & Majors only (priority enrollment for Specialists). Not eligible for CR/NCR option. See department website for prerequisite details and registration instructions. Students may count HIS475H1 towards the Specialty methodology pathway or carry on to HIS476H1: Senior Thesis.

Prerequisite: Consent of supervisor and department

Exclusion: HIS498H1, HIS499Y1, HIS476Y1, HIS491Y1

Breadth Requirements: Society and its Institutions (3)

HIS476H1 - Senior Thesis Seminar

Previous Course Number: HIS476Y1

Hours: 24S

Students research and write a primary-sourced based thesis of approximately 7,000 words, building on the prospectus and literature review developed in HIS475H1. Students attend seminar meetings to discuss the hypotheses they have formulated, present their work in progress and engage in constructive critique of other students' work. History Specialists & Majors only (priority enrollment for Specialists). Students must find topics and thesis supervisors. Not eligible for CR/NCR option. See department website for prerequisite details and registration instructions.

Prerequisite: HIS475H1 and consent of supervisor and department

Exclusion: HIS476Y1, HIS498H1, HIS499Y1, HIS491Y1

Breadth Requirements: Society and its Institutions (3)

HIS477H1 - Topics in the Social and Cultural History of Victorian Britain

Hours: 24S

Examination of the impact of industrialism on Victorian society and values. Concentration on Victorian social critics including Engels, Owen, Mayhew, Dickens and Morris.

Prerequisite: 9.0 credits including 1.0 credit in History

Recommended Preparation: A course in modern British History/Victorian literature

Breadth Requirements: Society and its Institutions (3)

HIS479H1 - US Foreign Policy Since World War II

Hours: 24S

An in-depth study of U.S. behaviour in the global arena since World War II. Particular attention will be paid to the origins and evolution of the Cold War, the Vietnam War, the initiatives of the Nixon-Kissinger years, the end of the Cold War, and the relevance of globalization.

Prerequisite: HIS271Y1/ HIS377H1

Breadth Requirements: Society and its Institutions (3)

HIS480H1 - Modernity and its Others: History and Postcolonial Critique

Hours: 24S

Engaging with influential perspectives in postcolonial historiography, this seminar tracks three major themes in the history of the idea of modernity from the late 18th through the 20th centuries: political freedom, citizenship and the nation-state; capitalism and its critique; and the relationship of history, memory, and identity. (Joint undergraduate-graduate)

Prerequisite: A mark of 73% or higher in [HIS282Y1](#), or instructor's permission; [HIS470H1](#)

Recommended Preparation: History of colonialism, political theory, or postcolonial literatures

Breadth Requirements: Society and its Institutions (3)

HIS481H1 - Elite Women, Power, and Modernity in Twentieth-Century Africa

Hours: 24S

The role of elite women in twentieth-century Africa has been overshadowed by studies of non-elite women so much so as to suggest that all women lacked power. This course aims to show how a very limited but important group of women negotiated power in a century of increasing patriarchy. It combines gender with class analysis.

Prerequisite: 300-level African History course or any of the African Studies courses offered at U of T.

Breadth Requirements: Society and its Institutions (3)

HIS483H1 - Space and Power in Modern Africa

Hours: 24S

This course examines the production, experience, and politics of space in modern Africa from a historical perspective. How is space - local, national, and imperial - produced? In what ways does power inscribe these spaces? This course will explore these questions through a variety of readings examining historical examples and cases from across the continent.

Prerequisite: A course in African History such as [HIS319H1](#), [AFR290H1](#), [AFR370H1](#)

Breadth Requirements: Society and its Institutions (3)

HIS484H1 - The Car in North American History

Hours: 24S

This seminar examines the history of the car in North America from the perspective of technology, business, landscape and popular culture. Particular attention is paid to issues of production, consumption, geography, and daily life, and to the importance of class race, gender, region, and age in shaping the meaning and experience of car culture.

Prerequisite: [HIS263Y1](#)/ [HIS264H1](#)/ [HIS271Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS485H1 - Topics in Chinese History

Previous Course Number: HIS485Y1

Hours: 24S

A seminar on selected aspects of Chinese history from 1368 to the present. Please see History website for detailed description of topic in any given year.

Prerequisite: [EAS102Y1](#)/ [HIS280Y1](#)/ [JMC201Y1](#)

Exclusion: [HIS485Y1](#)

Breadth Requirements: Society and its Institutions (3)

HIS487H1 - Animal and Human Rights in Anglo-American Culture

Hours: 24S

Examines the parallel discourses of animal and human rights in Anglo-American culture from the eighteenth century to the present. The course explores issues of subjectivity and consciousness as well as cruelty and pain. Topics include slavery and abolition, animal welfare and antivivisection, anti-colonial liberation movements, and animal rights campaigns.

Breadth Requirements: Society and its Institutions (3)

HIS489H1 - The History of Psychiatry and Psychiatric Illness

Hours: 24S

Introduces students to current issues in the history of psychiatry and some of the major developments in the evolution of this unique medical specialty. The format is class discussion based on themes covered in the course textbook, covering such topics as changing perspectives

on the nature of psychotic illness, the psychoneuroses, disorders of the mind/body relationship, psychiatric diagnosis, and presentations of illness. (Joint undergraduate-graduate).

Exclusion: HIS423Y1

Breadth Requirements: Society and its Institutions (3)

HIS490H1 - Everyday Stalinism

Hours: 24S

This seminar explores issues of everyday life in Soviet Russia during the Stalin era. What was the Soviet normal? Topics will include belief systems, dreams and myths, terror, fear, repression, and resistance. Texts include a range of different sources, memoirs, diaries, official state documents, and secondary sources.

Recommended Preparation: Any course in Russian history, culture or politics

Breadth Requirements: Society and its Institutions (3)

HIS491Y1 - Senior Thesis

Hours: 48S

Students research and write a primary-sourced based thesis of approximately 7,000 words. They attend seminar to provide training in reviewing literature, writing research proposals, formulating hypotheses, oral presentation of findings and constructive critique of other students work. History Specialists & Majors only (priority enrollment for Specialists). Students must find topics and thesis supervisors. Not eligible for CR/NCR option. See department website for prerequisite details and registration instructions.

Prerequisite: Consent of Supervisor and department

Exclusion: HIS476Y1, HIS498H1, HIS499Y1

Breadth Requirements: Society and its Institutions (3)

HIS492H1 - Empire & Colonization in the French Atlantic World

Hours: 24S

The first French empire (1604-1791) is typically considered a failed empire. Beginning with the first French exploratory expeditions in the South Atlantic in the mid-16th century, this course examines the social, economic and political history of French imperial expansion during the *Ancien régime* in order to consider the meaning of success, as applied to empire during this period. The focus is on the development of the two colonial centres of

the French New World: New France and the French Caribbean.

Prerequisite: HIS244H1/ HIS294Y1/ (HIS230H1, HIS231H1)

Recommended Preparation: HIS387H1

Breadth Requirements: Society and its Institutions (3)

HIS493H1 - Humanity in War: The Modern Evolution of the Law of Armed Conflict

Hours: 24S

This course explores the development of international humanitarian law over the course of the nineteenth and twentieth centuries. Questions asked will include how modern warfare has been understood as a political, cultural, social and legal phenomenon, and the ways in which such perspectives developed into a program of restraint.

Prerequisite: HIS241H1/ HIS242H1/ HIS344H1/ HIS344Y1/ EUR200Y1 or another course in modern history excluding HIS262H1

Breadth Requirements: Society and its Institutions (3)

HIS494H1 - Gandhi's Global Conversations

Hours: 24S

Primary source analysis of global circuits of ethico-political thought via work and life of Gandhi. Charts transnational environment of Gandhian thought (eg. Ruskin and Tolstoy), its critics (advocates of minority rights, also revolutionary violence) and global afterlife (eg. King, Mandela). Teaches methods in intellectual and political history of the global.

Prerequisite: HIS282Y1 with a mark of 76% or above

HIS495Y1 - Topics in History

Hours: 48S

An in-depth examination of historical issues. Content in any given year depends on instructor. See History website for more details.

Prerequisite: 14.0 credits, including 2.0 HIS credits excluding HIS262H1. Further prerequisites vary from year to year, consult the department.

Recommended Preparation: Varies from year to year

HIS495H1 - Topics in History

Previous Course Number: HIS495Y1

Hours: 24S

An in-depth examination of historical issues. Content in any given year depends on instructor. See History website for more details.

Prerequisite: 14.0 credits, including 2.0 HIS credits excluding HIS262H1. Further prerequisites vary from year to year, consult the department.

Recommended Preparation: Varies from year to year

HIS496H1 - Topics in History

Hours: 24S

An in-depth examination of historical issues. Content in any given year depends on instructor. See History website for more details.

Prerequisite: 14.0 credits including 2.0 HIS credits. Further prerequisites vary from year to year, consult the department.

Exclusion: Students may not take both L0601 ("Critical Histories of the Black Canadian Experience") and L0701 ("Race in Canada") offered in 2016-17 Fall/Winter.

HIS497H1 - Animal Politics and Science

Hours: 24S

Why is thinking about the animal unsettling for some or strange for others? Especially since Darwin, the question of the animal-what it says about being or not being human-has been at the core of important philosophical and scientific debates. This course examines the ways that question has been answered over time.

Prerequisite: 1.0 credit in political theory, history of science, or intellectual history. Students who do not meet the prerequisite are encouraged to contact the Department.

Breadth Requirements: Thought, Belief and Behaviour (2)

HIS498H1 - Independent Studies

History Majors and Specialists only. These courses result in the production of an independent research project. This may not necessarily take the form of a thesis. Students must find topics and project supervisors. Not eligible for

CR/NCR option. See department website for specific registration instructions.

Prerequisite: Minimum 80% over 3.0 HIS credits at the 200-level or above

HIS499Y1 - Independent Studies

History Majors and Specialists only. These courses result in the production of an independent research project. This may not necessarily take the form of a thesis. Students must find topics and project supervisors. Not eligible for CR/NCR option. See department website for specific registration instructions.

Prerequisite: Minimum 80% over 3.0 HIS credits at the 200-level or above

History and Philosophy of Science and Technology

Faculty List

Associate Professor and Director

E. Jones-Imhotep, BA, PhD (V)

Associate Professor and Director of Graduate Studies

R. Woods, BA MA, PhD (V)

Professor and Director of Undergraduate Studies

D. Walsh, BSc, BA, M Phil, PhD, PhD (V)

Professors

N. Kremmentsov, BSc, MSc, PhD (V)

M. Vicedo, BA, MA, PhD, PhD (V)

D. Walsh, BSc, BA, M Phil, PhD, PhD (V)

Associate Professors

B. Baigrie, BA, MA, PhD (V)

J. Berkovitz, BSc, MA, PhD (V)

L. Dacome, BA, M Phil, PhD (V)

Y. Fehige, BSc, BPhil, BTheol, MPhil, MTheol, PhD, PhD (V)

C.-P. Yeang, BS, SM, PhD, Sc D (V)

Assistant Professors

E. Abrams, BS, MA, PhD

E.K. Burton, BA, AM, PhD (V)

K. Vold, BA, PhD (V)

A. Zakar, MA, MA, MPhil, PhD

Professors Emeriti

C. Fraser, MA, PhD (V)

B.S. Hall, BA, PhD (V)

P.M.H. Mazumdar, MB, M Tech, PhD (V)

P. Thompson, MA, PhD (V)

M.P. Winsor, M Phil, PhD (V)

science and technology examine. Courses in the philosophy of science engage with the structure of science, its methods, and its special claims to the production of knowledge. Courses in the philosophy of technology examine the ethical implications and philosophical underpinnings of new technologies and consider how new technologies encourage us to rethink our conceptions of human nature, social justice, and the political order. Courses in the history of science and technology situate scientific and technological advances in their cultural, socio-economic, and political contexts, in the process revealing their relevance to many important matters such as race, gender, equality, diversity, nation-building, empire, colonialism, international relations, conflict, war, peace, health, and sustainability. Students taking HPS courses deepen their understanding of major ideas in science; they learn to think critically about the past and present role of science in human societies, and they improve their skills in oral presentation and debate, research, and writing.

Students pursuing History and Philosophy of Science and Technology programs will be ideally suited to any professional or academic context that requires an understanding of science, technology, science and technology in society, and the relation between the sciences, technological developments, and the humanities.

The Minor programs - both the History and Philosophy of Science minor, and the Science, Technology, and Society minor - are designed to complement a wide range of Major or Specialist programs including those in the sciences, history, philosophy, or any other program for which the combination of sciences - including the natural, social and psychological, engineering, health, mathematical and environmental sciences - technology and the humanities could prove beneficial. The Major program is useful for students considering careers in teaching and education, museum and library work, science writing and editing, law, medicine, government, industry, and other fields where competence in science, technology, and the humanities is valuable.

Website: <https://www.ihpst.utoronto.ca/undergraduate>

Director of Undergraduate Studies:

Professor Denis Walsh

Email: undergraduate.ihpst@utoronto.ca

Undergraduate Administrator and Advisor (HPS Courses and Programs):

Kathy Howat

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Science, Technology, and Society Program: Victoria College Academic Programs Liaison Officer

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Introduction

How are scientific theories developed? How do new technologies emerge and evolve over time? Do values affect science and technology, and do science and technology influence social values? What is the role of science and technology in a democratic society? Are scientific claims to knowledge justified? These are some of the deep questions that historians and philosophers of

Follow us on social media - [@UofT_IHPST](#) on X (formerly Twitter) Our History and Philosophy of Science Student Union (HPSUS) has a full array of social and intellectual events for students, runs a mentorship program, publishes an undergraduate journal, and hosts an international undergraduate research conference:
<https://hpsus.sa.utoronto.ca/>

History and Philosophy of Science and Technology Programs

History and Philosophy of Science and Technology Major (Arts Program) - ASMAJ0667

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Students are encouraged to meet with the Director of Undergraduate Studies prior to registering for this program.

(7.0 credits)

First Year (recommended):
 0.5 credit from any HPS 100-level courses; up to 1.0 credit at the 100 level will count towards the major.

Higher Years (required):
 Additional HPS courses, to a total of 7.0 credits and meeting the following two conditions:

1. At least 1.0 credit at the 200+ level.
2. At least 2.0 credits at the 300+ level, 0.5 of which must be at the 400-level.

[JHE353H1](#), [JHE355H1](#), [JPH311H1](#), [PHL245H1](#), [PHL355H1](#), [PHL356H1](#), or [PHL357H1](#) may also be used in meeting the above two conditions.

History and Philosophy of Science and Technology Minor (Arts Program) - ASMIN0667

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

1. Recommended: 0.5 credit from any HPS 100-level courses. Up to 1.0 credit in HPS courses at the 100-level will be counted towards the minor.
2. Recommended: at least 0.5 credit from any HPS 200-level courses.
3. Additional HPS courses to a total of 4.0 credits, with at least 1.0 credit at the 300+level.
[JHE353H1](#), [JHE355H1](#), [JPH311H1](#), [PHL245H1](#), [PHL356H1](#), or [PHL357H1](#) may also be used to fulfill this requirement.

Science, Technology, and Society Minor (Arts Program) - ASMIN2743

The Minor in Science, Technology, and Society is an interdisciplinary program that focuses on the different ways science and technology shape modern society and, in turn, how society shapes science and technology. From the food we eat to the way we conceive family relations or our obligations to future generations, our daily practices and our beliefs are increasingly influenced by scientific research and its applications. In turn, politics, public opinion, moral beliefs and cultural practices affect scientific and technological development. Courses in this program address such topics as science and values, science-related policy and politics, ethical uses of technology, scientific revolutions and controversies, modeling and communication of scientific research, and knowledge transfer from research to commercial and societal applications.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, no more than 1.0 credit at the 100-level, at least 1.0 credit at the 300+ level)

1. 0.5 credit from: HPS200H1, HPS202H1, HPS205H1
2. 1.0 credit from: VIC106H1, VIC107H1, VIC109H1, VIC121H1, VIC122H1, VIC137H1, VIC170Y1, VIC172Y1, VIC206H1, VIC207H1, CRE210H1, CRE235H1, REN242H1, VIC245H1, VIC246H1, CRE247H1, VIC248H1, VIC274H1, VIC301H1, VIC302H1, VIC452H1, REN343H1, CRE335H1, CRE345H1, CRE371H1, VIC377H1, VIC493H1
3. 1.0 credit from: HPS110H1, HPS206H1, HPS210H1, HPS211H1, HPS212H1, HPS220H1, HPS222H1, HPS240H1, HPS245H1, HPS255H1, HPS260H1, HPS270H1, HPS272H1, HPS307H1, HPS318H1, HPS319H1, HPS324H1, HPS331H1, HPS345H1, HPS346H1, HPS347H1, HPS351H1, HPS354H1, HPS401H1, HPS402H1, HPS420H1, HPS430H1, HPS431H1, HPS440H1, HPS442H1, HPS444H1, HPS450H1, HPS455H1, JPH441H1
4. An additional 0.5 credit from program requirements (1), (2) and (3) above.
5. An additional 1.0 credit from program requirements (1), (2) and (3) above and/or from the approved list of cognate courses: ANT204H1, ANT205H1, ANT345H1, ANT357H1, ANT358H1, ANT364H1, BIO220H1, CHC232H1, COG345H1, CSB202H1, CSC300H1, EAS328H1, EEB215H1, ENV200H1, ETH220H1, GGR223H1, GGR251H1, HIS300H1, HIS355H1, HIS423H1, HIS497H1, HMB301H1, JFP450H1, JIG322H1, JGE321H1, PCL389H1, PHL256H1, PHL273H1, PHL281H1, PHL342H1, PHL373H1, PHL377H1, PHL381H1, PHL384H1, PHY202H1, PSY328H1, SOC243H1, SOC250Y1, SOC331H1, SOC356H1, WGS367H1 or another course approved by the program coordinator.

History and Philosophy of Science and Technology Courses

HPS100H1 - Introduction to History and Philosophy of Science and Technology

Hours: 24L/10T

An investigation of some pivotal periods in the history of science with an emphasis on the influences of philosophy on the scientists of the period, and the philosophical and social implications of the scientific knowledge, theory and methodology that emerged.

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS110H1 - The Science of Human Nature

Hours: 24L/10T

Why do we do what we do? What factors play a role in shaping our personality? What biological and social elements help configure a person's moral and emotional character? In this course, we examine landmark studies that shook standard beliefs about human nature in their time. We analyze those studies in their historical context and discuss their relevance to social, ethical, and policy debates. The studies may include research on obedience, conformity, prejudice, aggression, attachment, empathy,

altruism, race and gender stereotypes, happiness, resilience.

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS120H1 - How to Think about Science

Hours: 24L/10T

This course addresses the nature of science and its importance to our understanding of ourselves. Questions include: What is a science? Is science objective? What is scientific reasoning? Has our conception of science changed through history? How does science shape our moral image? Does science reveal our natures as humans?

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS200H1 - Science and Values

Hours: 24L

An introduction to issues at the interface of science and society. Including the reciprocal influence of science and social norms, the relation of science and religion, dissemination of scientific knowledge, science and policy. Issues may include: Nuclear, Biological and Chemical Weapons; Genetic Engineering; The Human Genome Project; Climate Change.

Breadth Requirements: Society and its Institutions (3)

HPS202H1 - Technology in the Modern World

Hours: 24L/10T

This course examines the reciprocal relationship between technology and society since 1800 from the perspectives of race, class, and gender. From the role of European imperial expansion in 19th-century industrialization and mechanization to the development of nuclear technology, smartphones, and digital computers in the 20th century, we consider cultural responses to new technologies, and the ways in which technology operates as an historical force in the history of the modern world.

Breadth Requirements: Society and its Institutions (3)

HPS203H1 - Making Sense of Uncertainty

Hours: 24L/12T

This course examines issues of uncertainty in various contexts of science, technology, and society since the 19th century. Topics may include randomized controlled trials, statistical identification of normal and pathological, biopolitics, philosophical interpretations of probability, Brownian motions, uncertainty principle in quantum mechanics, cybernetic mind, and chance in avant-garde arts.

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS205H1 - Science, Technology, and Empire

Hours: 24L/6T

This gateway course introduces the emergence of modern science and technology and the rise of European mercantile and colonial empires as closely intertwined processes. Beginning with the European discovery of the Americas, this course provides a broad thematic overview of the transformation of scientific practices in imperial contexts, including but not limited to geography and cartography; medical botany and plantation agriculture; biogeography and evolutionary biology; ecology and environmentalism; and race science and anthropology. The course primarily focuses on British and French colonial contexts in South Asia, Africa, Australasia and the Americas, but also considers Iberian, Russian, Dutch, and other imperial formations.

Breadth Requirements: Society and its Institutions (3)

VIC207H1 - Genetic Technologies: Scientific Promises and Ethical Dilemmas

Hours: 24L/12T

This course examines the ethical dilemmas raised by new genetic technologies. It explores the scientific possibilities they open as well as the moral questions they raise. The topics covered might include: Eugenics, the human genome project, behavioral genetics, genetics and race, genetic screening, gene editing and therapy, gene doping in sports, animal and human cloning, and genetic enhancement.

Breadth Requirements: Society and its Institutions (3)

HPS208H1 - How We Think About Life

Hours: 24L/12T

What is the difference between living and non-living things? How should living things be classified? How do various kinds of life relate to each other and to the non-living environment? These are perennial questions, dealt with by every culture throughout history, and still debated today. This course surveys historical and cultural contexts of efforts to understand life, taxonomy, and ecology, and modern questions in the philosophy of the life sciences. The historical and cultural approach will help us to understand changing views, similarities, and differences among various understandings of life. And our approach to philosophy will be critical, asking what the best arguments for various current views are. Topics covered may include ecology, evolution, heredity, natural history, taxonomy, and definitions of life.

Recommended Preparation: 0.5 credit in HPS/ PHL/ VIC (Science, Technology, and Society courses)

Breadth Requirements: Living Things and Their Environment (4)

HPS212H1 - Global Digital: Information, Computing, and Communication in the Modern World

Hours: 24L/6T

From integrated circuits and the internet to social media and machine learning, digital technologies are a crucial part of modern life. How have they been developed in the contexts of the Cold War, neoliberal economic order, mass media, and crowdsourcing? In what ways have they shaped sociability, governance, production, and reasoning? How have they intertwined with the changing

scientific understandings of the worlds? In this course, we examine select digital technologies and their co-production with society. We emphasize their global aspects: international tech ecosystems, transnational research and development, and political or cultural transformations facilitated by digital devices or systems.

Exclusion: HPS301H1 (offered as "Global Digital: Information, Computing, and Communication in the Modern World") taken in Winter 2023

Recommended Preparation: 0.5 HPS credit

Breadth Requirements: Society and its Institutions (3)

HPS220H1 - Machines

Hours: 24L/11T

Machines pervade our lives and their influences are woven through countless contemporary debates in both academic and public discourse. The term 'machine' is used frequently in ordinary language, in literature, as well as in philosophical and scientific discussions, yet the concept itself—it's history, meaning, and impact—rarely gets the analysis it deserves. This course explores the meanings and influence of machines for knowledge, culture, and society in different periods and places, both real and imaginary, through the lens of the history and philosophy of technology. We will draw on scholarship and expertise from a range of fields, including history, philosophy, anthropology, human-machine interaction, computer science, sociology, and literary studies, to explore what machines have been, what they have become, and what they mean for our societies.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

HPS222H1 - Science, Paradoxes, and Knowledge

Hours: 24L/10T

What is the nature of science and scientific knowledge? What is the nature of space, time and motion? Does science tell us the truth about the world? What are scientific revolutions and how they occur? The course will address these and various other questions about science. It will focus on the bearings that philosophical views had on science in different periods in history, starting from ancient Greece and concluding in the 20th C.

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS225H1 - Remaking the Past: The Re-creation and Re-enactment of Science and Technology

Hours: 24L/12T

One path to understanding the knowledge of the past is by attempting to re-create it. From rebuilding and sailing ancient sea vessels to reenacting scientific experiments, re-creation is used to investigate past approaches to technology and science. Using such methods, researchers seek to understand what was known, and also to experience *how* it was known. But, a persistent question remains: are authentic experiences truly possible across distances of time and culture?

The course surveys several academic domains to explore how an array of approaches to re-creation are used and understood. As a term assignment, participants will design and share their own hypothetical re-creation project.

Recommended Preparation: 0.5 HPS credit

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS240H1 - The Influence of the Eugenics Movement on Contemporary Society

Hours: 24L/10T

This course explores present-day topics such as reproductive issues (including "designer babies" and genetic counselling), gender, racism/colonialism, disability and euthanasia through the lens of the history of eugenics. A "scientific" movement which became popular around the world in the early twentieth century, eugenics was based on the principle that certain undesirable human characteristics were hereditary and could be eliminated by controlled reproduction. It resulted in the enactment of laws in numerous places, including Canada, authorizing coerced reproductive sterilization of certain individuals, and other measures intended to "improve" humanity. Today, we see its influences woven through contemporary debates, a number of which we will consider.

Breadth Requirements: Society and its Institutions (3)

HPS245H1 - Visions of Society and Progress

Previous Course Number: HPS352H1

Hours: 24L/12T

This course explores influential visions of society and progress found in the history of the human sciences. It addresses questions such as: Are human beings naturally selfish or cooperative? Is society in harmony with the individual or opposed to the individual? It explores the significance of race, class, population growth, capitalism, and gender in debates about the good society.

Exclusion: [HPS352H1](#)

Recommended Preparation: 0.5 credit in any of the following: HPS, history, sociology, economics, political science, anthropology, or another field that intersects with the social sciences such as criminology

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS246H1 - Data and Society: What's Behind the Numbers?

Hours: 24L/12T

"Big data" and "data-driven" approaches have become central to our modern scientific, cultural, and political landscapes. Yet rarely do we stop to think about what these notions mean or how they relate to ways of living in and knowing the world around us. Students in this course will consider what it means to produce data, who/what gets in/excluded, and how a critical examination of the data-making process can inform a more socially just and equitable future.

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC248H1 - Genetics in the Movies: Mad Scientists, Clones, Superhumans, and Designer Babies

Hours: 24L/12T

This course explores how scientific and technological advances in genetics have been presented in the movies, focusing on American cinema. We will consider how selected films have influenced social perceptions of the role of scientists and genetic technologies in various areas. The movies and topics covered might include: *The Black Stork* (1917), *A Bill of Divorcement* (1932), *Tomorrow's Children* (1934) for eugenics; *The Boys from Brazil* (1978), and *Blueprint* (2003) for human cloning; *Jurassic Park* (1993) for de-extinction or bringing extinct animal species back to life; *Blade Runner* (1982) for synthetic biology and human nature; *Gattaca* (1997) for human genetic enhancement; *The Fly* (1958) and *The Island of Dr. Moreau* (1996) for chimeras; *My Sister's Keeper* (2009) for savior siblings; and *Okja* (2017) for genetically modified animals. We will also analyze the role

of documentaries, such as *Human Nature* (2019) and *Make People Better* (2022).

Breadth Requirements: Society and its Institutions (3)

HPS250H1 - Introductory Philosophy of Science

Hours: 24L/10T

This course introduces and explores central issues in the philosophy of science, including scientific inference, method, and explanation. Topics may include underdetermination, realism, empiricism, scientific revolutions, feminist epistemology, and laws of nature.

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS255H1 - History and Philosophy of Artificial Intelligence

Hours: 24L/12T

This course introduces students to the historical and philosophical issues around artificial intelligence (AI). We will cover the geopolitical, economic, and cultural contexts from which the field of AI emerged, as well as the troubled history of the scientific concept of intelligence and how that has influenced the development of AI. The course will also introduce students to foundational and normative questions, such as how we should define and measure AI, how to evaluate the accomplishments of AI systems, and what the benefits and risks of relying on such systems might be.

Breadth Requirements: Society and its Institutions (3)

HPS260H1 - Biology and the Future: Science and Science Fiction

Hours: 24L/6T

This lecture course explores the fantastic visions of humanity's future inspired by the advance of the biological sciences during the twentieth century. Biology provided the scientific underpinning for societal hopes and fears embodied in such cultural icons as robots, aliens, "brains in a vat," and super-humans.

Exclusion: [HMB444H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

HPS270H1 - Science and Literature

Hours: 24L/10T

This course will focus on the interplay between science and literature from ancient Greece to the present day. We'll examine the impact of major scientific paradigm shifts on the literature of their time, and situate literary texts within the context of contemporary scientific discoveries and technological innovations.

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS272H1 - Science against Religion? A Complex History

Previous Course Number: HPS326H1
Hours: 24L

This course introduces students to the central topics arising from the encounter between modern science and religion. It aims to integrate historical and philosophical perspectives about science and religion. Did modern science arise because of Christianity or despite of it? Are science and religion necessarily in conflict? Have they factually always been in conflict throughout history? Are proofs of God's existence obsolete? Has science secularized society? What role should religions play in liberal democracies?

Exclusion: HPS326H1
Breadth Requirements: Society and its Institutions (3)

HPS299H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

HPS299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

HPS300H1 - Topics in History and Philosophy of Science and Technology

Hours: 24L/10T

Topics vary year to year.

Prerequisite: 4.0 Credits
Recommended Preparation: 1.0 credit in HPS courses, including 0.5 at the 200-level
Breadth Requirements: Thought, Belief and Behaviour (2)

HPS301H1 - Topics in the History of Science and Technology

Hours: 24L/10T

This course can concern topics of special interest in the history of science from Antiquity until present. Topics may focus on specific-time periods, fields of inquiry, individuals, scientific institutions, or geographic locations. Content in any given year depends on instructor. Refer to the [Institute for the History & Philosophy of Science & Technology website](#) for more information.

Prerequisite: 4.0 credits
Recommended Preparation: 1.0 HPS credit, of which a 0.5 credit must be at the 200+ level
Breadth Requirements: Creative and Cultural Representations (1)

HPS302H1 - Topics in Philosophy of Science and Technology

Hours: 24L/10T

This course can concern topics of special interest in the philosophy of science from Antiquity until present. Topics may include scientific change, rationality, method, evidence, progress, reduction, scientific laws, models, representation etc. The course may also focus on specific-time periods, fields of inquiry, individuals, scientific institutions, geographic locations, etc.

Prerequisite: 4.0 credits, including a 0.5 credit in BR= 1/ BR= 2
Recommended Preparation: 1.0 credit in HPS/ PHL/ VIC (Science, Technology, and Society courses), including a 0.5 credit at the 200+ level.
Breadth Requirements: Thought, Belief and Behaviour (2)

HPS304H1 - A History Lab: Biomedical Sciences, Past and Present

Hours: 36S

Offers a hands-on introduction to historical research. Through a close examination of classic scholarly texts, archival materials, and recent media publications, this advanced seminar explores the sources, methods, and approaches in historical studies of biomedical twentieth century-sciences.

Breadth Requirements: Creative and Cultural Representations (1)

HPS316H1 - Environment, Technology, and Nature

Hours: 24L/10T

This course examines the intersection of technology and environment in the modern world. Whether simple or complex, whether designed for recreation, work, or warfare, our tools and how we use them filter our perceptions of, and engagements with, non-human nature.

Prerequisite: 0.5 credit in HPS/HIS

Recommended Preparation: 1.0 HPS/ HIS credit. HPS202H1/ HPS205H1/ HPS220H1 would be especially useful.

Breadth Requirements: Creative and Cultural Representations (1)

HPS318H1 - History of Medicine I

Hours: 24L/10T

This course explores how medicine was practiced, taught and theorized from ancient Greece to the early modern period. It focuses on the historical development of western medicine in relation to societies, politics and culture, and considers topics such as the creation of medical traditions, the transmission and communication of medical knowledge, the pluralistic world of healers, the role of religion, magic and natural philosophy, the cultural meaning of disease, and the emergence of institutions such as the hospital.

Prerequisite: 4.0 credits

Exclusion: HPS314Y1

Recommended Preparation: 0.5 HPS/ HIS credit, or course with health care content including ANT205H1, ANT345H1, ANT357H1, HST211H1, HST350H1, SOC243H1, WGS367H1.

Breadth Requirements: Society and its Institutions (3)

HPS319H1 - History of Medicine II

Hours: 24L/10T

This course examines the development of medicine from the seventeenth to the twentieth century. It focuses on the historical development of western medicine in relation to societies, politics and culture and considers topics such as changing views of the body, the development of medical institutions such as hospitals, asylums and laboratories, the diversifies world of healing and the place of visual and material culture in the production and dissemination of medical knowledge.

Prerequisite: 4.0 credits

Exclusion: HPS314Y1, HPS315H1

Recommended Preparation: 0.5 HPS/ HIS credit, or course with health care content

Breadth Requirements: Society and its Institutions (3)

HPS321H1 - Understanding Engineering Practice: From Design to Entrepreneurship

Hours: 6T/24S

This course seeks to understand the nature of engineering practice, which comprises complex social, intellectual, and technical actions at various stages from design to entrepreneurship. Building upon the history and social studies of technology, philosophy of engineering, business history, and management science, we introduce ways to analyze such complex actions.

Prerequisite: 0.5 credit in BR=1/ BR=2 and 1.0 credit from any of AER, ANA, APS, AST, BCB, BCH, BIO, BME, CHE, CHM, CIV, ECE, EEB, ENV, ESC, ESS, FOR, GGR, HMB, LMP, MGT, MGY, MIE, MSE, PHY, RSM, TEP

Breadth Requirements: Society and its Institutions (3)

HPS322H1 - Complexity, Order, and Emergence

Hours: 10T/24S

A survey of the history of and recent developments in the scientific study of complex systems and emergent order. There will be particular emphasis on the biological and cognitive sciences. Topics covered may include: mechanism and teleology in the history of science, 19th and 20th century emergentism, complex systems dynamics, order and adaptiveness, self-organization in biology and cognitive development.

Prerequisite: 4.0 credits, including a 0.5 credit in HPS/ PHL

Recommended Preparation: 1.0 HPS/ PHL credit.

PHL232H1 or any course in the philosophy of science or in the history and philosophy of biology would be especially useful.

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS324H1 - Natural Science and Social Issues

Hours: 24L

Historical examination of the interactions of science (both as body of knowledge and as enterprise) with ideological, political and social issues. The impact of science; attacks on and critiques of scientific expertise as background to contemporary conflicts. Subjects may vary according to students interests. (offered irregularly)

Breadth Requirements: Society and its Institutions (3)

HPS325H1 - Modern Science and Holy Texts

Hours: 24L

This course explores interdisciplinary topics related to the encounter between modern science and texts accepted as holy by religious communities, such as the Bible in Christianity. What role did holy texts play in the emergence of modern science? Did modern science change the way religious communities interpret their holy texts? What to do with claims such as that the Quran contains quantum physics? Does modern science exhibit the same kind of rationality that we find in rabbinical Judaism? Do holy texts only exist to assist humanity's attempts at understanding the meaning of the world, while modern science actually explains the world? What role do texts play in modern science compared to holy texts in religious communities? And, what has modern science to say about the very idea of holy texts?

Breadth Requirements: Society and its Institutions (3)

HPS331H1 - How Maps Transform the World, Society, and Ourselves

Hours: 24L/12T

Maps are pervasive in our world: so indispensable, and so disposable that thousands are made, used, and discarded every day. Yet not long ago, maps were both rare and strange technological things. When and why did modern

mapping systems come into being? Behind this transformation lie contentious stories of objects and people, makers and users, global forces and local dynamics, metropolises and colonies, and technologies and cultures. Focusing on the modern period, each week illuminates maps and their importance in our world by focusing on a keyword, such as power, territory, worldmaking, boundaries, imperialism, capitalism, literacy, verticality, and countermapping.

Prerequisite: 0.5 HPS/HIS credit at the 200/ 300-level.

Students who do not meet the prerequisite are encouraged to contact the Department.

Exclusion: HPS301H1 (Topics in the History of Science: *A Global History of Mapping Sciences*), offered in Winter 2022

Breadth Requirements: Society and its Institutions (3)

HPS340H1 - The Limits of Machine Intelligence

Hours: 24L/11T

With the recent headline-making breakthroughs in deep learning neural networks (DNNs), it might seem that we are on the cusp of living with artificial systems that match or exceed human intelligence. But there remain longstanding philosophical challenges around the definition of intelligence that AI researchers use, how they measure the performance of their systems, and what DNNs could really be capable of, that still need addressing. For example, how close are DNNs to passing the Turing test? How close are we to building general intelligence and what do we need to get us there? How can we draw fair and meaningful comparisons between artificial and biological systems? We will draw on material from the history and philosophy of science to evaluate and inform current debates around the limits of AI. For example, we'll consider what kinds of explanations DNNs can provide. We'll also look at how debates between the rationalists and empiricists (e.g. Locke, Hume, and Kant) inform current debates between AI nativists and empiricists. This course explores these questions through contemporary texts across the fields of philosophy of science, artificial intelligence, comparative psychology, and cognitive science, among others.

Prerequisite: Completion of 4.0 credits including 0.5 credit in any HPS/ PHL/ COG course. Students who do not have all of these prerequisites are encouraged to contact the instructor.

Exclusion: HPS300H1 (Topics in History and Philosophy of Science and Technology: The Limits of Machine Intelligence), offered in Winter 2021 and Fall 2021

Recommended Preparation: One of HPS220H1/ HPS255H1/ PHL342H1/ COG250Y1/ CSC199H1/ SMC199H1

Breadth Requirements: Society and its Institutions (3)

HPS345H1 - Quantifying the World: Debates on the Ethical and Epistemic Implications of AI and Automation

Hours: 24L/12T

The effects of automation, computing, and information technology have had a great impact on our society. The rise of automation and computing the almost cult-like trust in mechanization have transformed our society both at the material and the epistemological level. This course will examine the epistemological and ethical debates that AI and automation have produced in all sectors of society. It will consider a variety of media and instruments from data visualization and mapping, to the use of AI and robotics, contextualizing them within popular and hotly contested examples in the military field and in cybersecurity, in medical diagnostics and epidemiology, in the automotive industry, and in the personal realm.

Prerequisite: 4.0 credits

Recommended Preparation: 1.0 credit in BR=1/ BR=2, including a 0.5 credit in HPS/ PHL/ VIC (Science, Technology, and Society courses)

Breadth Requirements: Society and its Institutions (3)

HPS346H1 - Modifying and Optimizing Life: on the Peculiar Alliance between AI, Biology, and Engineering

Hours: 24L/12T

Taking cue from the entanglements that historically have pervaded the relation between biology and information technology since the early 20th century, this course interrogates the sociocultural and technological conjuncture that has brought computer science, biology and engineering together into peculiar, ingenious, and often controversial alliances. What do AI, synthetic biology, and biotechnology have in common? How have they come to be associated? What are the debates and ethics emerging from such associations? The course will focus on topics such as: geoengineering and bioremediation; GMO and Robotic insects; the use of expert systems and machine learning to optimize synthetic biology; the flourishing and marketing of precision and personalized medicine/immunotherapy; and the ethics behind CRISPR babies.

Prerequisite: 4.0 credits

Recommended Preparation: 1.0 credit in BR=1/ BR=2, including a 0.5 credit in HPS/ PHL/ VIC (Science, Technology, and Society courses)

Breadth Requirements: Society and its Institutions (3)

HPS347H1 - History of Autism Across Time and Cultures

Hours: 24L/12T

What is autism? When was it first identified as a condition? How has its meaning changed over time? How does the autistic experience vary across cultures?

This course covers the history of autism, the social understandings and cultural meanings of autism, and the autistic experience through time and across cultures. It introduces students to both historical and contemporary perspectives, including scientific accounts, cultural representations, and the voices of autistic people. Through the case of autism we will grapple with larger issues such as the role of medical and social views in shaping definitions of mental normality and pathology, the changing meaning of disability in different cultures, and the experience of living with a developmental disability.

Prerequisite: 4.0 credits, of which 0.5 should be an HPS credit.

Breadth Requirements: Society and its Institutions (3)

HPS351H1 - Biomedical Sciences and Technologies in Global Society

Hours: 24L/12T

This course examines how the contemporary life sciences intersect with global geopolitics through an introduction to the field of science and technology studies (STS). Using interdisciplinary methodologies and global perspectives, the course addresses key questions including: Who benefits from the development of new biotechnologies, and who is exploited in the process? Who sets the international norms of bioethics and medical market regulation? How are biologists and medical practitioners redefining life for different societies and their diverse constituencies? The course predominantly focuses on humans, but also introduces new scholarship on animal studies and synthetic life forms. It has significant coverage of the Middle East, Africa, and East and South Asia.

Prerequisite: 4.0 credits, including a 0.5 credit in BR=1/ BR=2

Recommended Preparation: 1.0 credit in ANT/ HPS/ HIS/ SOC/ VIC (Science, Technology, and Society courses)

Breadth Requirements: Society and its Institutions (3)

JHE353H1 - History of Evolutionary Biology

Hours: 24L/10T

A historical examination of major ideas about biological evolution, with an emphasis on the period from the 18th century to the 1950s, and of their impact on scientific and social thought. Topics include the diversity of life and its classification, the adaptation of organisms to their environments, Wallace's and Darwin's views on evolution by natural selection, sexual selection, concepts and mechanisms of biological inheritance, and the implications of evolutionary theory for the organization of human society.

Prerequisite: 6.0 credits including a 0.5 credit from HPS/ EEB/ BIO

Exclusion: HPS353H1

Recommended Preparation: 2.0 HPS/ EEB/ BIO credits including 1.0 credit at the 200+ level

Breadth Requirements: Society and its Institutions (3)

HPS354H1 - History of Medicine and Public Health in the Middle East

Hours: 24L/6T

This course provides a broad thematic overview of the history of medicine and public health in the Middle East. Focusing on the modern period, the course highlights the region as a contact zone of medical traditions and a key site in the emergence of colonial medicine and international public health. Students examine the social and cultural effects of new developments in medical thought and practice, including ideas about contagion and disease prevention, the notion of public health and hygiene, and the construction of colonial and postcolonial medical schools and hospitals.

Recommended Preparation: A prior course in HPS, HIS, or NMC

Breadth Requirements: Society and its Institutions (3)

JHE355H1 - History and Philosophy of Evolutionary Biology

Hours: 24L/10T

An examination of the place of the organism in evolutionary theory from the early 1900s to the present. Biology is the science of living things, and yet, paradoxically, living things--organisms--have been comprehensively left out of the Modern Synthesis theory of evolution that developed in the twentieth century. This course surveys the reasons--historical, philosophical and empirical--for the marginalization of organisms from evolutionary theory. It examines the ways in which evolutionary developmental biology attempts to restore the organisms to a central place in evolutionary biology. Offered by faculty in the Institute for the History and Philosophy of Science and Technology.

Prerequisite: 6.0 credits, of which 1.0 credit is from EEB/ BIO/ HPS courses

Recommended Preparation: JHE353H1

Breadth Requirements: Society and its Institutions (3)

HPS370H1 - Philosophy of Medicine

Hours: 24L/12T

This course introduces students to philosophical issues in the study of medicine. The course will cover foundational questions, such as what constitutes evidence that a therapy is effective, how do we define health and disease, and information derived from research is used to support clinical practice. Students will be introduced to different movements in contemporary clinical medicine, such as Evidence-based Medicine, Person-Centered Healthcare, and Precision Medicine.

Prerequisite: 4.0 credits, including a 0.5 credit in BR=1/ BR=2

Recommended Preparation: 0.5 credit in HPS/PHL courses, HPS250H1 or another philosophy of science course would be particularly useful

Breadth Requirements: Society and its Institutions (3)

HPS371H1 - COVID-19: Epistemology and Societal Implications

Hours: 24L/12T

The COVID-19 pandemic led to significant changes in our daily lives, society, medicine, and public health. This course will examine the pandemic and the public response through a philosophy of science lens. In particular, students will explore philosophical issues about how the healthcare community generates knowledge and how that knowledge is used to inform responses to a major public health crisis. The course will also provide a brief history of pandemics and examine Coronavirus in a historical context. Epistemological issues regarding pandemic modelling and epidemiology, clinical research and generalizability of findings, diagnostic testing, public health response (e.g. border closures, protective masks, social distancing, isolation, testing and tracking), and economic and social impact will be covered. Portrayals of the pandemic by media, government, and scientists will also be examined. Readings will be drawn from a variety of academic disciplines and popular sources.

Prerequisite: 6.0 credits

Recommended Preparation: 1.0 credit of HPS courses or courses required for the Science, Technology, and Society minor

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS390H1 - The Story of Number: Mathematics from the Babylonians to the Scientific Revolution

Hours: 24L/12T

A survey of ancient, medieval, and early modern mathematics with emphasis on historical issues.

Prerequisite: 1.0 credit at the 200+ level from CSC/ MAT/ STA

Exclusion: HPS310Y1; MAT220Y1

Breadth Requirements: Society and its Institutions (3)

HPS391H1 - Rebels Who Count: The History of Mathematics from 1700 to the Present

Hours: 24L/12T

A survey of the development of mathematics from 1700 to the present with emphasis on historical issues.

Prerequisite: 1.0 credit at the 200+ level from CSC/ MAT/ STA

Exclusion: HPS310Y1; MAT220Y1, MAT391H1

Breadth Requirements: Society and its Institutions (3)

HPS399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

HPS401H1 - Scientific Artifacts

Hours: 24S

This course explores the history of science through direct engagement with local scientific artifacts within the University of Toronto Scientific Instrument Collection (UTSIC.org). Each student will undertake a research project focused on a single artifact within the collection in order to explore both the local history of science and the methodology of material culture research as it relates to science.

Prerequisite: 9.0 credits including a 0.5 credit from HPS or a course required for the Science, Technology, and Society minor

Recommended Preparation: 2.0 credits from HPS or courses required for the Science, Technology, and Society minor including a 0.5 credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

HPS402H1 - Animals in the Histories of Science and Technology

Hours: 24S

What can a focus on nonhuman animals reveal about the knowledge practices and politics of science and technology? This course approaches the history of science from the perspective of nonhuman animals in order to revisit—and retell—the history of various scientific disciplines and practices. We will consider how the various ways in which animals have been enrolled into the formation of scientific knowledge, from laboratory settings to ecological fieldwork, to colonial natural history. Students will learn to interrogate anthropocentric biases in the histories of science and technology, and to assess the significance of nonhuman animals in the formation of scientific knowledge.

Prerequisite: 9.0 credits, including 0.5 HPS credit at the 300+ level.

Recommended Preparation: 2.0 credits from HPS or HIS or courses required for the Science, Technology, and Society minor

Breadth Requirements: Society and its Institutions (3)

HPS410H1 - History of Mathematics

Hours: 24S

Historical examination of mathematics, focusing on certain themes and time periods, to show how mathematics has changed and evolved.

Prerequisite: 9.0 credits

Recommended Preparation: 2.0 HPS credits including a 0.5 credit at the 300+ level; HPS390H1/ HPS391H1

Breadth Requirements: Society and its Institutions (3)

HPS411H1 - Conceptual Foundations of Mathematics

Hours: 24S

An examination of foundational and conceptual aspects of mathematics such as: the nature of mathematical objects, logicism, Church's elementaristic mathematics, Gödel's theorem and formal systems, postulational methods, mathematics and reality, the cardinal, ordinal and abstract

approaches to numbers, infinity, and Euclidean and non-Euclidean geometries.

Prerequisite: 9.0 credits

Recommended Preparation: 2.0 HPS credits including a 0.5 credit at the 300+ level; [PHL245H1](#)/ [HPS390H1](#)/ [HPS391H1](#)/ [HPS410H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

HPS412H1 - History of the Biological Sciences

Hours: 24S

Historical examination of the biological sciences, focusing on certain themes and time periods.

Prerequisite: 9.0 credits including a 0.5 HPS credit

Recommended Preparation: 2.0 HPS credits including a 0.5 HPS credit in the biological sciences (e.g. [HPS240H1](#), [HPS346H1](#), [HPS351H1](#), or [JHE353H1](#))

Breadth Requirements: Society and its Institutions (3)

HPS413H1 - Reading and Writing about Physics

Hours: 24S

Historians, philosophers, and sociologists have produced a wealth of literature on the analysis and examination of physics from the early modern period to the present. In this seminar, we read and discuss in depth a collection of recent classics and cutting-edge works on the historical studies of physics. Students also conduct research based on this literature. We aim to use physics as a lens to understanding key themes in the making of modern science, from incommensurability, epistemic cultures, and historical ontology, to materiality, social construction, pedagogy, and countercultures.

Prerequisite: 9.0 credits including a 0.5 HPS credit

Recommended Preparation: 2.0 HPS credits including a 0.5 credit at the 300+ level

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS422H1 - History of Data

Hours: 24S

This seminar examines the meaning and value of data in a variety of historical contexts. Important moments in the history of science will be considered through scholars' attempts to catalog and quantify human lives, social

dynamics, and natural phenomena. Course material will focus on the relationship between the production of data and different forms of knowledge, power, and governance.

Prerequisite: 9.0 credits

Recommended Preparation: 1.5 credits in the history and/or philosophy of science, of which a 0.5 credit is at the 300-level; [HPS390H1](#)/ [HPS391H1](#) would be ideal.

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS430H1 - History of Technology

Hours: 24S

This course offers a focused discussion of various topics and themes within the history of technology. Content in any given year varies by instructor. Not eligible for CR/NCR option.

Prerequisite: 9.0 credits

Recommended Preparation: 1.5 credits in HPS/ HIS/ VIC (Science, Technology, and Society courses), of which a 0.5 credit is at the 300-level. [HPS202H1](#)/ [HPS205H1](#)/ [HPS205H1](#)/ [HPS316H1](#) particularly useful.

Breadth Requirements: Society and its Institutions (3)

HPS440H1 - Topics in History of Medicine

Previous Course Number: HPS303H1

Hours: 24S

This course offers a focused discussion of several aspects of the history of medicine. Various themes are examined in depth year to year so as to familiarize students with different topics and methodological approaches.

Prerequisite: 9.0 credits including [HPS318H1](#)/ [HPS319H1](#)/ 1.0 HPS credit at the 200+ level

Exclusion: [HPS303H1](#)

Recommended Preparation: 2.0 HPS credits including a 0.5 credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

JPH441H1 - Physical Science in Contemporary Society

Hours: 24L

This course will discuss the complex, real-life, ethical, and philosophical issues behind how science gets done, including questions such as how we as scientists strive to determine the truth; who determines what science is done, and on what basis; how we as a community manage

science and make decisions about education, authorship, publication, hiring, et cetera (including issues related to equity, inclusivity, and diversity); and how we as a society fund science and apply its discoveries.

Prerequisite: [PHY224H1](#)/ [PHY250H1](#)/ [PHY252H1](#)/ [PHY254H1](#)/ [PHY256H1](#), or by permission of the instructor.

Breadth Requirements: Society and its Institutions (3)

HPS442H1 - Sciences of Whiteness in the Middle East & Its Diasporas

Hours: 24S

This research seminar traces the historical response of Middle Eastern societies and diasporas to Western scientific discourses of race and ethnicity from the 19th century to the present. We examine notions of racial classification and hierarchy as they emerged in Islamicate and European imperial contexts and their scientific application to Middle Eastern populations. We further investigate how the nationalist ideologies of modern Middle Eastern nation-states relied on and perpetuated race science. Finally, we consider the experience of Middle Eastern migrants to Europe and North America and their engagement with scientific definitions of Aryan, Caucasian and white racial identity.

Prerequisite: 9.0 credits including a 0.5 credit HPS/ HIS/ NMC course at the 300+ level

Recommended Preparation: 2.0 HPS/ HIS/ NMC credits including a 0.5 credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

HPS444H1 - Health, Medicine, and Society in the Mediterranean World

Hours: 24S

This course examines healing practices and medical knowledge in the Mediterranean world, focusing on the early modern period. We will address topics such as the interplay between medicine and religion, the relationship between patients and practitioners, and the role of women as both healers and patients and across Mediterranean shores. We will also consider how individuals in different Mediterranean regions experienced the relationship between health and the environment, explore the bearings that medical pursuits had on the creation and consolidation of notions of sex and gender, and examine how medical knowledge shaped views of the body and informed health policies.

Prerequisite: 1.0 credit from the following: [HPS205H1](#), [HPS240H1](#), [HPS245H1](#), [HPS260H1](#), [HPS301H1](#), [HPS304H1](#), [HPS316H1](#), [HPS318H1](#), [HPS319H1](#),

[HPS331H1](#), [HPS351H1](#), [HPS354H1](#), [HPS402H1](#), [HPS412H1](#), [HPS430H1](#), [HPS431H1](#), [HPS442H1](#), [HIS218H1](#), [HIS313H1](#). At least one 0.5 credit must be at the 300+ level. Students who do not meet the prerequisites are encouraged to contact the academic unit.

Recommended Preparation: This course presupposes having some background in the history of medicine and/or history of science and having engaged in historical research projects. It is highly recommended that students have taken one or more courses in History of Medicine (or History of Science and/or Technology).

Breadth Requirements: Society and its Institutions (3)

HPS445H1 - Slavery, Medicine, and Science

Hours: 24S

This course will study historical entanglements of slavery, science, and medicine. On the one hand, it will examine 1) the different ways in which medicine and science supported the institution of slavery; and 2) the sites in which slavery was integral to processes of production, movement and transfer of medical and scientific knowledge and practices. On the other hand, it will consider the voices of enslaved individuals, and accordingly cast light on the epistemic role of enslaved communities in the histories of science, medicine, and technology.

Prerequisite: 1.0 credit from [HPS318H1](#)/ [HPS319H1](#)/ [HPS202H1](#)/ [HPS205H1](#)/ [HPS240H1](#)/ [HPS245H1](#)/ [HPS260H1](#)/ [HPS301H1](#)/ [HPS304H1](#)/ [HPS316H1](#)/ [HPS331H1](#)/ [HPS351H1](#)/ [HPS354H1](#)/ [HPS379H1](#)/ [HPS402H1](#)/ [HPS412H1](#)/ [HPS430H1](#)/ [HPS431H1](#)/ [HPS442H1](#)/ [HIS218H1](#)/ [HIS313H1](#)/ [NMC379H1](#), of which a 0.5 credit is at the 300-level

Recommended Preparation: Background in the history of medicine and/or history of science and having engaged in historical research projects; 0.5 credit in the History of Medicine

Breadth Requirements: Society and its Institutions (3)

HPS450H1 - Revolutions in Science

Previous Course Number: HPS350H1

Hours: 24S

A detailed investigation into a highly celebrated and important philosophical idea concerning the development of scientific knowledge: the notion of scientific revolutions. We will consider the process of theory change, whether theory choice is rational, and whether theoretical terms, such as light and space preserve their meanings across revolutions. In addition to classic work by Kuhn, we shall consider approaches that were inspired by Kuhn's work. In particular, we will consider the approaches of

sociologists of scientific knowledge. The course is taught as a seminar in which the students play an active role in presenting and discussing the readings.

Prerequisite: 9.0 credits including a 0.5 HPS credit at the 200+ level

Exclusion: HPS350H1

Breadth Requirements: Society and its Institutions (3)

HPS455H1 - Well-being and Policy Analysis

Hours: 24L

The research seminar will consider some central questions in the philosophy of economics and political philosophy and their intersection with, and relevance for questions concerning social justice, the environment, well-being, and policy analysis. The aim is to provide some background and analytical tools for policy analysis concerning issues related to well-being, distributive justice, poverty, disability, and environmental sustainability.

Prerequisite: 9.0 credits including a 0.5 HPS credit at the level of 200+ level

Breadth Requirements: Society and its Institutions (3)

HPS480H1 - Special Topics in History and Philosophy of Science and Technology

Hours: 24S

This course will focus on matters of special interest in the history and philosophy of science and technology. Topics will change each time the course is offered, but may include a focus on specific-time periods, fields and methods of inquiry, individuals, institutions, geographic regions, controversies, etc.

Prerequisite: 9.0 credits, including 1.5 credits from courses that count toward the History and Philosophy of Science (HPS), Science, Technology and Society (STS), History, or Philosophy programs of study. Of these 1.5 credits, at least a 0.5 credit at the 300-level.

HPS485H1 - Special Research Opportunity in HPS

Hours: 24L

This course offers advanced undergraduate students the opportunity to undertake original research in the history

and/or philosophy of science, technology, or medicine, under the guidance of a faculty mentor. Of particular value to students interested in graduate study.

Prerequisite: Permission of the Department

Recommended Preparation: 9.0 credits; 3.0 credits in HPS courses, of which a 0.5 credit is at the 300-level

HPS495Y1 - Individual Studies

This course offers advanced undergraduate students the opportunity to undertake a reading and/or research project in HPS, supervised by a faculty member in the history and/or philosophy of science, technology, or medicine. Of particular value to students interested in graduate study.

Prerequisite: Departmental approval

Recommended Preparation: 9.0 credits; 3.0 credits in HPS courses, of which a 0.5 credit is at the 300-level

Breadth Requirements: Thought, Belief and Behaviour (2)

HPS496H1 - Individual Studies in HPS

This course offers advanced undergraduate students the opportunity to undertake a reading and/or research project in HPS, supervised by a faculty member in the history and/or philosophy of science, technology, or medicine. Of particular value to students interested in graduate study.

Prerequisite: Departmental approval

Recommended Preparation: 9.0 credits; 3.0 credits in HPS courses, of which a 0.5 credit is at the 300-level.

HPS497H1 - Individual Studies

A reading and research project in some aspect of the social, cultural or intellectual history of science and technology, supervised by a faculty member.

Prerequisite: Two HPS courses

Human Biology

Faculty List

Professor, Teaching Stream and Director

M. Neumann, MSc, PhD

Associate Professor, Teaching Stream and Associate Director

R. Wilson, MSc, PhD

Professor, Teaching Stream

W. Ju, MSc, PhD

Associate Professors, Teaching Stream

A. Dias, MSc, PhD

C. Dockstader, PhD

M. Papaconstantinou, PhD

F. Taverna, PhD

Assistant Professors, Teaching Stream

A. Cortinois, MPh, PhD

L. De Souza-Kenney, MSc, PhD

G. Dong MMath, PhD

M. Jeffrey, PhD

N. Levy-Strumpf, PhD

Introduction

The Human Biology Program is an undergraduate collaborative program between the Faculty of Arts and Science and the Faculty of Medicine. Our programs examine the biology of our species through interdisciplinary lenses by integrating topics from the biological and medical sciences, social sciences, and the humanities. The overall structure of the collaborative program is designed to expose students to the transdisciplinary field of human biology with opportunities to specialize in selected areas of inquiry in the field.

A central objective to the Human Biology Program (HMB) is to facilitate the development of core competencies in our students: critical and creative thinking, self-directed learning, quantitative and analytical reasoning, and effective communication and research. HMB aims to prepare students for future careers where an interdisciplinary education in biological and health sciences would be an asset. HMB offers diverse experiential learning opportunities for students which includes a faculty that is at the cutting-edge of teaching innovation, strong academic relationships with other department and faculties at the University, service learning with organizations in Toronto, and undergraduate research in laboratories on campus and affiliated hospital research institutes.

After first year life science courses, undergraduate students may enter the Human Biology program in their selected HMB program: Fundamental Genetics and its Applications, Global Health, Health and Disease, Human Biology, and Neuroscience. HMB students start by taking foundational courses to provide background on their subject area and introduce students to topics integral to the study of human biology. Students then progress to more specialized topics and have more detailed instruction but are also encouraged to participate in self-directed and group learning. In their final year, HMB students are further engaged to practice critical analysis by taking one of our specialized seminar courses in their program, which focuses on expanding the depth of knowledge the student has acquired while studying human biology at the University of Toronto.

Contact Information:

Human Biology Program Office
Wetmore Hall, Room 105
300 Huron Street

hmb.undergrad@utoronto.ca

416-946-7609

<https://hmb.utoronto.ca/>

Regarding Human Biology Programs

The Human Biology Program offers five areas of study, all of which offer a major program, and four of which offer a specialist program.

Students are allowed to switch between Human Biology major programs, but should first obtain written permission from the Program Office to determine which of their completed courses will transfer to their new Human Biology major program. Students seeking advice on which HMB major to choose or advice for program completion pathways should view the [HMB Program Pathway Tools webpage](#).

Note: Students are not permitted to be enrolled in more than one Human Biology major program.

Human Biology Programs

Fundamental Genetics and its Applications Specialist (Science Program) - ASSPE1050

HMB: Fundamental Genetics and its Applications

The objective of the HMB: Fundamental Genetics and its Applications specialist and major programs are to provide students with a solid foundation in the biological sciences with a focus on genetics and its applications in medicine, environment and biotechnology.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Note there are different options depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

For students who have completed between 4.0 and 8.5 credits:

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in BIO130H1 will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

For students who have completed 9.0 or more credits:

Variable Minimum Grade

Minimum grades are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO220H1
- BIO230H1/ BIO255H1
- HMB265H1/ BIO260H1
- BCH210H1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in either BIO220H1 or (BIO230H1/ BIO255H1) will not be considered for admission. Please note that obtaining the minimum final grades does not guarantee admission to the program.

Students applying for admissions to the program utilizing transfer credits will be considered on a case-by-case basis. Students entering from CEGEP or from another university should contact hmb.undergrad@utoronto.ca after their transfer credit assessment has been complete

for program enrolment assessment. Please consult the Arts & Science Program Toolkit for more information on program enrolment.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Fundamental Genetics and its Applications Specialist program in the Summer after Year 2 and have completed BIO230H1, HMB265H1 and HMB201H1 prior to ASIP entry.

Completion Requirements:

Required Courses (12.0 credits, including at least 1.0 credit at the 400 level)

Chemical and Physical Foundations of Biological Systems

1. (CHM135H1, CHM136H1)/ CHM151Y1
Transfer credits will be accepted in lieu of the chemistry requirements only if they carry a direct exclusion or equivalency to a pre-approved chemistry course

2. MAT135H1/ PHY131H1/ PHY151H1/ CSC108H1/
CSC110Y1/ CSC148H1

3. BCH210H1

Biological Foundations of Living Systems

4. BIO120H1, BIO130H1

5. BIO220H1

6. BIO230H1/ BIO255H1

Courses in Fundamental Genetics

7. HMB265H1/ BIO260H1

8. HMB321H1

9. 1.5 credits from: HMB360H1/ HMB385H1/ HMB421H1/
HMB435H1/ HMB437H1/ HMB474H1/ BCH311H1/
BCH350H1/ BCH425H1/ BCH426H1/ BCH440H1/
BCH445H1/ BCH448H1/ CSB328H1/ CSB331H1/
CSB340H1/ CSB349H1/ CSB351Y1/ CSB353H1/
CSB428H1/ CSB429H1/ EEB318H1/ EEB323H1/
EEB365H1/ EHJ352H1/ MGY314H1/ MGY315H1/
MGY340H1/ MGY428H1/ MGY441H1/ MGY470H1/
PSL350H1

Courses in Applied Genetics

10. HMB201H1
 11. HMB301H1/ HMB360H1/ BCH311H1/ CSB349H1/ PSL350H1

12. 1.5 credits from: HMB301H1/ HMB401H1/ HMB431H1/ HMB436H1/ HMB441H1/ HMB489H1/ BCH311H1/ BCH340H1/ BCH441H1/ BCH447H1/ CSB352H1/ CSB458H1/ CSB459H1/ CSB472H1/ CSB473H1/ CSB474H1/ EEB325H1/ EEB459H1/ EEB460H1/ NFS487H1/ PHL384H1/ PSL350H1/ PSL404H1/ PSY390H1

Data Analysis and Research-Based Courses

13. 0.5 credit in statistics: EEB225H1/ STA220H1/ STA288H1/ PSY201H1
 14. 0.5 credit from bioethics: HMB306H1/ HMB406H1/ PHL281H1
 15. 0.5 credit from upper-year lab course: HMB311H1/ HMB314H1/ MGY314H1/ MGY315H1
 16. 0.5 credit from: HMB342H1/ HMB360H1/ HST373H1/ MGY377H1/ MGY378H1
 17. 1.0 credit from project course: HMB490Y1/ HMB491Y1/ HMB496Y1*

* A research project from a different unit may be accepted with prior written approval from Human Biology.

Fundamental Genetics and its Applications Specialists Notes:

1. Courses can only count toward one requirement, even if listed as options to multiple requisites of the program .
 2. Not all courses listed have priority enrolment for Fundamental Genetics and its Applications specialists. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.

Course Group

Fundamental Genetics and its Applications Centric Courses

HMB201H1, HMB301H1, HMB311H1, HMB321H1, EHJ352H1, HMB360H1, HMB401H1, HMB421H1, HMB431H1, HMB435H1, HMB441H1

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Global Health Specialist (Science Program) - ASSPE2575

HMB: Global Health

The objective of the HMB: Global Health program is to provide students with instruction in fundamental biological sciences and to integrate a broad understanding of the socio-economic and cultural determinants of health to populations around the world.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Note there are different options depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

For students who have completed between 4.0 and 8.5 credits:

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in BIO130H1 will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

For students who have completed 9.0 or more credits:

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO230H1/ BIO255H1
- BIO220H1
- HMB265H1/ BIO260H1
- BCH210H1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in BIO230H1/ BIO255H1 will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

Students applying for admissions to the program utilizing transfer credits will be considered on a case-by-case basis. Students entering from CEGEP or from another university should contact hmb.undergrad@utoronto.ca after their transfer credit assessment has been complete for program enrolment assessment. Please consult the

Arts & Science Program Toolkit for more information on program enrolment.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Global Health Specialist program in the Summer after Year 2 and have completed BIO230H1, HMB265H1 and HMB203H1 prior to ASIP entry.

Completion Requirements:

Required Courses (13.5 credits, including at least 1.0 credit at the 400-level)

Chemical and Physical Foundations of Biological Systems

1. (CHM135H1, CHM136H1)/ CHM151Y1
Transfer credits will be accepted in lieu of the chemistry requirements only if they carry a direct exclusion or equivalency to a pre-approved chemistry course.
2. MAT135H1/ PHY131H1/ PHY151H1
3. BCH210H1

Biological Foundations of Living Systems

4. BIO120H1, BIO130H1
5. BIO220H1
6. BIO230H1/ BIO255H1
7. HMB265H1/ BIO260H1
8. PSL300H1, PSL301H1
9. 1.0 credit from HMB302H1/ ANA300Y1/ ANA301H1/ BCH311H1/ CSB349H1/ CSB351Y1/ IMM340H1/ IMM350H1/ MGY377H1/ MGY378H1/ PSL350H1

Global Health Concentration Courses

10. HMB203H1
11. HMB323H1

12. 0.5 credit from: PHS100H1/ GGR112H1/ PSY100H1/ INS201Y1/ ANT100Y1/ ANT205H1/ ANT208H1/ ECO101H1/ ECO105Y1/ SOC100H1/ SOC150H1
Transfer credits from AP and IB psychology are not accepted.

13. 0.5 credit from Epidemiology Courses: HMB342H1/ HST373H1

14. 2.0 credits from courses on the biological dimensions of Global Health: HAI453H1/ HMB385H1/ HMB433H1/ HMB435H1/ HMB437H1/ HMB440H1/ HMB443H1/ HMB453H1/ HMB462H1/ HMB473H1/ HMB474H1/ HMB496Y1*/ JEH455H1/ CSB351Y1/ EEB325H1/ EHJ352H1/ MGY350H1/ MGY377H1/ MGY378H1/ MIJ485H1

15. 1.0 credit from courses on the social and ecological dimensions of Global Health: HMB303H1/ HMB306H1/ ANT345H1/ ANT348H1/ ANT358H1/ ANT458H1/ ANT460H1/ ECO314H1/ ECO324H1/ ECO333H1/ ECO334H1/ ECO342H1/ ECO369H1/ ECO402H1/ EEB428H1/ ENV341H1/ ENV430H1/ ENV432H1/ GGR433H1/ GGR434H1/ HST405H1/ HST410H1/ HST440H1/ HST464H1/ INS240Y1/ INS250H1/ INS350H1/ INS355H1/ JNH350H1/ NEW352H1/ AFR352H1/ NEW353H1/ AFR353H1/ NEW453H1/ AFR453H1/ NFS490H1/ PHS300H1/ PSY320H1/ PSY321H1

Data Analysis and Research-Based Courses

16. 0.5 credit in statistics: EEB225H1/ STA220H1/ STA288H1/ PSY201H1

17. 0.5 credit in bioethics: HMB306H1/ HMB406H1/ PHL281H1

18. 1.0 credit from: HMB490Y1/ HMB491Y1/ HMB496Y1*

* A research project from a different unit may be accepted with prior written approval from Human Biology.

Global Health Specialists Notes:

1. Courses can only count toward one requirement, even if listed as options to multiple requisites of the program
2. Not all courses listed have priority enrolment for Global Health specialists. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
3. Effective Fall 2021, courses associated with New College's African Studies program will have the new "AFR" designator.

Course Group

Global Health Centric Courses

HMB203H1, HMB303H1, HMB323H1, HMB342H1, JNH350H1, HMB433H1, HMB434H1, HMB443H1, HAI453H1/ HMB453H1, JEH455H1, HMB462H1

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Health & Disease Specialist (Science Program) - ASSPE2013

HMB: Health & Disease

The objective of the HMB: Health & Disease program is to provide students with a solid foundation in the biological sciences as it relates to basic human physiology and the mechanisms of disease and to facilitate the integration of concepts from across the life sciences, social sciences and humanities. In addition, students will acquire skills in laboratory science, experience with quantitative approaches, and develop effective communication skills to provide an appropriate background essential to research and problem solving in this field.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Note there are different options depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

For students who have completed between 4.0 and 8.5 credits:

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in BIO130H1 will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

For students who have completed 9.0 or more credits:

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO230H1/ BIO255H1
- BIO220H1
- HMB265H1/ BIO260H1
- BCH210H1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in BIO230H1/ BIO255H1 will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

Students applying for admissions to the program utilizing transfer credits will be considered on a case-by-case basis. Students entering from CEGEP or from another university should contact hmb.undergrad@utoronto.ca after their transfer credit assessment has been complete for program enrolment assessment. Please consult the Arts & Science Program Toolkit for more information on program enrolment.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Health & Disease Specialist program in the Summer after Year 2 and have completed BIO230H1, HMB265H1 and HMB202H1 prior to ASIP entry.

Completion Requirements:

Required Courses (13.0 credits, including at least 1.0 credit at the 400-level)

Chemical and Physical Foundations of Biological Systems

1. (CHM135H1, CHM136H1)/ CHM151Y1
Transfer credits will be accepted in lieu of the chemistry requirements only if they carry a direct exclusion or equivalency to a pre-approved chemistry course
2. MAT135H1/ PHY131H1/ PHY151H1
3. BCH210H1

Biological Foundations of Living Systems

4. BIO120H1, BIO130H1
5. BIO220H1
6. BIO230H1/ BIO255H1
7. HMB265H1/ BIO260H1
8. PSL300H1, PSL301H1
9. 1.0 credit from depth courses on the molecular biology of cells and tissues: CSB327H1/ CSB328H1/ CSB331H1, BCH311H1/ CSB349H1/ PSL350H1

Health & Disease Concentration Courses

10. [HMB202H1](#)
 11. [HMB302H1](#)
 12. [HMB322H1](#)
 13. 2.0 credits from: [HMB385H1](#)/ [HAJ453H1](#)/ [HMB401H1](#)/
[HMB402H1](#)/ [HMB422H1](#)/ [HMB432H1](#)/ [HMB434H1](#)/
[HMB435H1](#)/ [HMB437H1](#)/ [HMB440H1](#)/ [HMB441H1](#)/
[HMB442H1](#)/ [HMB443H1](#)/ [HMB452H1](#)/ [HMB453H1](#)/
[HMB462H1](#)/ [HMB470H1](#)/ [HMB471H1](#)/ [HMB472H1](#)/
[HMB473H1](#)/ [HMB474H1](#)/ [JEH455H1](#)/ [ANA300Y1](#)/
[ANA301H1](#)/ [CSB345H1](#)/ [CSB351Y1](#)/ [EEB325H1](#)/
[IMM340H1](#)/ [IMM350H1](#)/ [LMP301H1](#)/ [LMP365H1](#)/
[LMP403H1](#)/ [LMP406H1](#)/ [LMP450H1](#)/ [LMP460H1](#)/
[MGY377H1](#)/ [MGY378H1](#)/ [NFS485H1](#)/ [NFS486H1](#)/
[PCL302H1](#)/ [PCL362H1](#)/ [PCL386H1](#)/ [PCL469H1](#)/
[PCL470H1](#)/ [PCL482H1](#)/ [PCL483H1](#)/ [PSL404H1](#)/
[PSL421H1](#)/ [PSL425H1](#)

Data Analysis and Research-Based Courses

14. 0.5 credit in statistics: [EEB225H1](#)/ [STA220H1](#)/
[STA288H1](#)/ [PSY201H1](#)
 15. 0.5 credit in bioethics: [HMB306H1](#)/ [HMB406H1](#)/
[PHL281H1](#)
 16. 0.5 credit from upper-year lab course: [HMB312H1](#)/
[HMB314H1](#)/ [CSB330H1](#)/ [PSL372H1](#)/ [BCH370H1](#)
 17. 0.5 credit from research based courses: [HMB323H1](#)/
[HMB342H1](#)/ [HST373H1](#)
 18. 1.0 credit from [HMB490Y1](#)/ [HMB491Y1](#)/ [HMB496Y1](#)*

* A research project from a different unit may be accepted with prior written approval from Human Biology.

Health & Disease Specialists Notes:

1. Courses can only count toward one requirement, even if listed as options to multiple requisites of the program
2. Not all courses listed have priority enrolment for Health & Disease specialists. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.

Course Group

Health & Disease Centric Courses

[HAJ453H1](#)/ [HMB453H1](#), [HMB202H1](#), [HMB302H1](#),
[HMB312H1](#), [HMB322H1](#), [HMB342H1](#), [EHJ352H1](#),
[HMB402H1](#), [HMB422H1](#), [HMB432H1](#), [HMB434H1](#),
[HMB435H1](#), [HMB437H1](#), [HMB440H1](#), [HMB441H1](#),
[HMB442H1](#), [HMB452H1](#), [JEH455H1](#), [HMB462H1](#),
[HMB474H1](#)

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\)](#) stream.

Neuroscience Specialist (Science Program) - ASSPE1472

HMB: Neuroscience

Neuroscience is an interdisciplinary field aimed at understanding the brain and nervous system utilizing integration of research at the molecular, cellular, and organismal levels, and through all stages of human development. The application of neuroscience has important implications for understanding human behaviour and for promoting the development of effective strategies for diagnosing and treating nervous system disorders. The objective of the HMB: Neuroscience specialist and major programs is to provide students with a solid foundation and facilitates the integration of concepts from multiple fields to their understanding of neuroscience.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Note there are different options depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

For students who have completed between 4.0 and 8.5 credits:

Variable Minimum Grade

Minimum grades in required courses or their equivalents are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses must be completed:

- [BIO130H1](#)
- ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 70% in [BIO130H1](#), a final grade average lower than 70% in ([CHM135H1](#), [CHM136H1](#)), or a final grade lower than 70% in [CHM151Y1](#) will not be considered for admission. Please note that obtaining the minimum grades does not guarantee admission to the program.

For students who have completed 9.0 or more credits:

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- [BIO230H1](#)/ [BIO255H1](#)

- HMB265H1/ BIO260H1
- BCH210H1
- PSL300H1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 70% in BIO230H1/ BIO255H1 will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

Students applying for admissions to the program utilizing transfer credits will be considered on a case-by-case basis. Students entering from CEGEP or from another university should contact hmb.undergrad@utoronto.ca after their transfer credit assessment has been complete for program enrolment assessment. Please consult the Arts & Science Program Toolkit for more information on program enrolment.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Neuroscience Specialist program in the Summer after Year 2 and have completed BIO230H1, HMB265H1 and HMB200H1 prior to ASIP entry.

Completion Requirements:

Required Courses (12.0 credits, including at least 1.0 credit at the 400-level)

Chemical and Physical Foundations of Biological Systems

1. (CHM135H1, CHM136H1)/ CHM151Y1
*Transfer credits will be accepted in lieu of the chemistry requirements **only** if they carry a direct exclusion or equivalency to a pre-approved chemistry course.*
2. MAT135H1/ PHY131H1/ PHY151H1/ CSC108H1/ CSC110Y1/ CSC148H1
3. BCH210H1

Biological Foundations of Living Systems

4. BIO120H1, BIO130H1
5. BIO230H1/ BIO255H1
6. HMB265H1/ BIO260H1
7. PSL300H1

Neuroscience Concentration Courses

8. PSY100H1 *Transfer credits from AP and IB Psychology are not accepted*
9. HMB200H1
10. HMB300H1
11. CJH332H1
12. HMB320H1
13. JHA410H1/ ANA300Y1

14. 2.0 credits from HMB360H1/ HMB385H1/ HMB420H1/ HMB430H1/ HMB440H1/ HMB442H1/ HMB450H1/ HMB460H1/ HMB471H1/ HMB473H1/ HMB490Y1/ CSB345H1/ CSB346H1/ CSB430H1/ CSB432H1/ CSB445H1/ CSC321H1/ LMP410H1/ NEW335H1/ BPM335H1/ NFS489H1/ PCL475H1/ PCL476H1/ PSL374H1/ PSL432H1/ PSL440Y1/ PSL445H1/ PSL446H1/ PSL450H1/ PSL452H1/ PSL472H1/ PSY342H1/ PSY371H1/ PSY372H1/ PSY390H1/ PSY395H1/ PSY460H1/ PSY470H1/ PSY471H1/ PSY473H1/ PSY480H1/ PSY490H1/ PSY492H1/ PSY493H1/ PSY492H1/ PSY493H1/ PSY494H1/ PSY496H1

Data Analysis and Research-Based Courses

15. 0.5 credit in statistics: EEB225H1/ STA220H1/ STA288H1/ PSY201H1
16. 0.5 credit from bioethics: HMB306H1/ HMB406H1/ PHL281H1
17. 0.5 credit from upper-year lab course: HMB310H1/ HMB314H1/ PSY369H1
18. 1.0 credit from project course: HMB490Y1/ HMB491Y1/ HMB496Y1*

* A research project from a different unit may be accepted with prior written approval from Human Biology.

Neuroscience Specialists Notes:

1. Courses can only count toward one requirement, even if listed as options to multiple requisites of the program.
2. Not all courses listed have priority enrolment for Neuroscience specialists. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
3. Effective Fall 2021, courses associated with New College's Buddhism, Psychology and Mental Health program will have the new "BPM" designator.

Course Group

Neuroscience Centric Courses:

HMB200H1, HMB300H1, HMB310H1, HMB320H1, CJH332H1, HMB360H1, JHA410H1, HMB420H1,

HMB430H1, HMB440H1, HMB442H1, HMB450H1, HMB460H1, HMB473H1

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Fundamental Genetics and its Applications Major (Science Program) - ASMAJ1050

HMB: Fundamental Genetics and its Applications

The objective of the HMB: Fundamental Genetics and its Applications specialist and major programs are to provide students with a solid foundation in the biological sciences with a focus on genetics and its applications in medicine, environment and biotechnology.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Required Courses (8.0 credits, including a 0.5 credit at the 400-level)

To help students proceed through the program, it is recommended that first year life science requirements are completed before entering the program.

Chemical and Physical Foundations of Biological Systems

1. (CHM135H1 and CHM136H1)/ CHM151Y1
Transfer credits will be accepted in lieu of the chemistry requirements only if they carry a direct exclusion or equivalency to a pre-approved chemistry course

2. MAT135H1/ PHY131H1/ PHY151H1/ CSC108H1/ CSC110Y1/ CSC148H1

3. BCH210H1

Biological Foundations of Living Systems

4. BIO120H1, BIO130H1

5. BIO220H1

6. BIO230H1/ BIO255H1

Courses in Fundamental Genetics

7. HMB265H1/ BIO260H1

8. HMB321H1

9. 0.5 credit from: HMB360H1/ HMB421H1/ HMB435H1/

HMB437H1/ HMB474H1/ BCH311H1/ BCH425H1/ BCH426H1/ BCH440H1/ BCH445H1/ BCH448H1/ CSB328H1/ CSB331H1/ CSB340H1/ CSB349H1/ CSB351Y1/ CSB353H1/ CSB428H1/ CSB429H1/ EEB318H1/ EEB323H1/ EEB365H1/ EHJ352H1/ MGY314H1/ MGY315H1/ MGY340H1/ MGY428H1/ MGY470H1/ PSL350H1

Courses in Applied Genetics

10. HMB201H1

11. HMB301H1/ HMB360H1/ BCH311H1/ CSB349H1/ PSL350H1

12. 0.5 credit from: HMB301H1/ HMB385H1/ HMB401H1/ HMB431H1/ HMB436H1/ HMB441H1/ HMB489H1/ BCH311H1/ BCH340H1/ BCH350H1/ BCH441H1/ BCH447H1/ CSB352H1/ CSB458H1/ CSB459H1/ CSB472H1/ CSB473H1/ CSB474H1/ EEB325H1/ EEB459H1/ EEB460H1/ MGY441H1/ NFS487H1/ PHL384H1/ PSL350H1/ PSL404H1/ PSY390H1

Data Analysis and Research-Based Courses

13. 0.5 credit in statistics: EEB225H1/ STA220H1/ STA288H1/ PSY201H1

14. 0.5 credit from: HMB311H1/ HMB314H1/ MGY315H1/ HMB342H1/ HMB360H1/ HMB490Y1/ HMB491Y1/ HMB496Y1*/ HST373H1/ MGY314H1/ MGY377H1/ MGY378H1

** A research project from a different unit may be accepted with prior written approval from Human Biology.*

Fundamental Genetics and its Applications Major Notes:

1. Courses can only count toward one requirement, even if listed as options to multiple requisites of the program.
2. Not all courses listed have priority enrolment for Fundamental Genetics and its Applications majors. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
3. The Fundamental Genetics and its Applications major cannot be paired with any other Human Biology Program managed major program.

Course Group

Fundamental Genetics and its Applications Centric Courses

HMB201H1, HMB301H1, HMB311H1, HMB321H1, EHJ352H1, HMB360H1, HMB401H1, HMB421H1, HMB431H1, HMB435H1, HMB441H1

Global Health Major (Science Program) - ASMAJ2575

HMB: Global Health

The objective of the HMB: Global Health program is to provide students with instruction in fundamental biological sciences and to integrate a broad understanding of the socio-economic and cultural determinants of health to populations around the world.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Required Courses (8.0 credits, including a 0.5 credit at the 400-level)

To help students proceed through the program, it is recommended that first year life science requirements are completed before entering the program.

Chemical and Physical Foundations of Biological Systems

1. (CHM135H1 and CHM136H1)/ CHM151Y1
Transfer credits will be accepted in lieu of the chemistry requirements only if they carry a direct exclusion or equivalency to a pre-approved chemistry course.
2. MAT135H1/ PHY131H1/ PHY151H1

Biological Foundations of Living Systems

3. BIO120H1, BIO130H1
4. BIO230H1/ BIO255H1
5. HMB265H1/ BIO260H1
6. PSL300H1, PSL301H1
7. 1.0 credit from: HMB302H1/ ANA300Y1/ ANA301H1/ BCH311H1/ CSB349H1/ CSB351Y1/ IMM340H1/ IMM350H1/ MGY377H1/ MGY378H1/ PSL350H1

Global Health Concentration Courses

8. 0.5 credit from: PHS100H1/ PSY100H1/ INS201Y1/ ANT100Y1/ SOC101Y1/ SOC100H1/ ECO100Y1/ ECO101H1/ ECO105Y1
Transfer credits from AP and IB psychology are not accepted.
9. HMB203H1

10. 0.5 credit from courses on the biological dimensions of Global Health: HAI453H1/ HMB323H1/ HMB342H1/ HMB385H1/ HMB433H1/ HMB435H1/ HMB437H1/ HMB440H1/ HMB453H1/ HMB443H1/ HMB462H1

HMB473H1/ HMB474H1/ HMB490Y1/ HMB491Y1/ HMB496Y1*/ CSB351Y1/ EEB325H1/ EHJ352H1/ HST373H1/ MGY350H1/ MGY377H1/ MGY378H1/ MIJ485H1

11. 0.5 credit from courses on the social and ecological dimensions of Global Health: HMB226H1/ HMB303H1/ HMB306H1/ HMB406H1/ ANT345H1/ ANT348H1/ ANT358H1/ ANT458H1/ ANT460H1/ BIO220H1/ EEB428H1/ ENV341H1/ ENV430H1/ ENV432H1/ GGR433H1/ GGR434H1/ JEH455H1/ ECO314H1/ HST405H1/ HST410H1/ HST440H1/ HST464H1/ INS240Y1/ INS250H1/ INS350H1/ INS355H1/ JNH350H1/ NEW352H1/ AFR352H1/ NEW353H1/ AFR353H1/ NEW453H1/ AFR453H1/ NFS490H1/ PHS300H1/ PSY320H1/ PSY321H1/ ECO324H1/ ECO333H1/ ECO334H1/ ECO342H1/ ECO402H1

Data Analysis Courses

12. 0.5 credit in statistics: EEB225H1/ STA220H1/ STA288H1/ PSY201H1

* A research project from a different unit may be accepted with prior written approval from Human Biology.

Global Health Major Notes:

1. Courses can only count toward one requirement, even if listed as options to multiple requisites of the program
2. Not all courses listed have priority enrolment for Global Health majors. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
3. The Global Health major cannot be paired with any other Human Biology Program managed major program.
4. Effective Fall 2021, courses associated with New College's African Studies program will have the new "AFR" designator.

Course Group

Global Health Centric Courses

HMB203H1, HMB303H1, HMB323H1, HMB342H1, JNH350H1, HMB433H1, HMB434H1, HMB443H1, HAI453H1/ HMB453H1, JEH455H1, HMB462H1

Health & Disease Major (Science Program) - ASMAJ2013

HMB: Health & Disease

The objective of the HMB: Health & Disease program is to provide students with a solid foundation in the biological sciences as it relates to basic human physiology and the mechanisms of disease and to facilitate the integration of concepts from across the life sciences, social sciences

and humanities. In addition, students will acquire skills in laboratory science, experience with quantitative approaches, and develop effective communication skills to provide an appropriate background essential to research and problem solving in this field.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Required Courses (8.0 credits, including a 0.5 credit at the 400-level)

To help students proceed through the program, it is recommended that first year life science requirements are completed before entering the program.

Chemical and Physical Foundations of Biological Systems

1. (CHM135H1 and CHM136H1)/ CHM151Y1
*Transfer credits will be accepted in lieu of the chemistry requirements **only** if they carry a direct exclusion or equivalency to a pre-approved chemistry course*
2. MAT135H1/ PHY131H1/ PHY151H1
3. BCH210H1

Biological Foundations of Living Systems

4. BIO120H1, BIO130H1
5. BIO220H1, BIO230H1/ BIO255H1
6. HMB265H1/ BIO260H1
7. PSL300H1, PSL301H1

Health & Disease Concentration Courses

8. HMB202H1
9. HMB302H1/ HMB322H1

10. 0.5 credit from: HMB385H1/ HAJ453H1/ HMB401H1/ HMB402H1/ HMB422H1/ HMB432H1/ HMB434H1/ HMB435H1/ HMB437H1/ HMB440H1/ HMB441H1/ HMB442H1/ HMB443H1/ HMB452H1/ HMB453H1/ HMB462H1/ HMB470H1/ HMB471H1/ HMB472H1/ HMB473H1/ HMB474H1/ EHJ352H1/ JEH455H1/ ANA300Y1/ ANA301H1/ BCH311H1/ CSB345H1/ EEB325H1/ LMP301H1/ LMP363H1/ LMP403H1/ LMP406H1/ LMP450H1/ LMP460H1/ NFS485H1/ NFS486H1/ PCL302H1/ PCL362H1/ PCL386H1/ PCL469H1/ PCL470H1/ PCL482H1/ PCL483H1/ PSL350H1/ PSL404H1/ PSL421H1/ PSL425H1

Data Analysis and Courses in Advanced Research, Laboratory, or Cellular Molecular Topics

11. 0.5 credit in statistics: EEB225H1/ STA220H1/ STA288H1/ PSY201H1

12. 0.5 credit from: HMB312H1/ HMB314H1/ HMB323H1/ HMB342H1/ HST373H1/ HMB490Y1/ HMB491Y1/ HMB496Y1*/ BCH311H1/ CSB349H1/ PSL350H1

** A research project from a different unit may be accepted with prior written approval from Human Biology.*

Health & Disease Major Notes:

1. Courses can only count toward one requirement, even if listed as options to multiple requisites of the program
2. Not all courses listed have priority enrolment for Health & Disease majors. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
3. The Health & Disease major cannot be paired with any other Human Biology Program managed major program.

Course Group

Health & Disease Centric Courses

HAJ453H1/ HMB453H1, HMB202H1, HMB302H1, HMB312H1, HMB322H1, HMB342H1, EHJ352H1, HMB402H1, HMB422H1, HMB432H1, HMB434H1, HMB435H1, HMB437H1, HMB440H1, HMB441H1, HMB442H1, HMB452H1, JEH455H1, HMB462H1, HMB474H1

Human Biology Major (Science Program) - ASMAJ2035

HMB: Human Biology

Human Biology is a transdisciplinary field concerned with the study of human health from a biological, sociological, and evolutionary perspective. Research in human biology focuses on impact that genetic variations, development, physical fitness, and nutrition have on the general health of populations and how this compares across cultures and through history. The objective of the HMB: Human Biology major program is to provide students with a solid foundation in the life sciences as it relates to human biology and to facilitate the integration of concepts from across the social sciences and humanities, and to equip them with quantitative skills essential to research and success in this field.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Required Courses (8.0 credits, including a 0.5 credit at the 400-level)

To help students proceed through the program, it is recommended that first year life science requirements are completed before entering the program.

Chemical and Physical Foundations of Biological Systems

1. (CHM135H1 and CHM136H1)/ CHM151Y1
Transfer credits will be accepted in lieu of the chemistry requirements only if they carry a direct exclusion or equivalency to a pre-approved chemistry course
2. MAT135H1/ PHY131H1/ PHY151H1
3. BCH210H1

Biological Foundations of Living Systems

4. BIO120H1, BIO130H1
5. HMB204H1
6. BIO230H1/ BIO255H1, BIO220H1
7. HMB265H1/ BIO260H1
8. PSL300H1, PSL301H1
9. 1.0 credit from: HMB302H1/ HMB385H1/ ANA300Y1/ ANA301H1/ BCH311H1/ CSB349H1/ CSB351Y1/ IMM340H1/ IMM350H1/ MGY377H1/ MGY378H1/ PSL350H1
10. 1.0 credit from: HMB226H1/ HMB302H1/ HMB303H1/ HMB310H1/ HMB311H1/ HMB312H1/ HMB314H1/ HMB322H1/ HMB323H1/ HMB342H1/ EHJ352H1/ HMB360H1/ HMB385H1/ HMB402H1/ HMB406H1/ HMB422H1/ HMB432H1/ HMB434H1/ HMB435H1/ HMB437H1/ HMB440H1/ HMB441H1/ HMB443H1/ HMB452H1/ HMB462H1/ HMB470H1/ HMB471H1/ HMB473H1/ HMB474H1/ HMB490Y1/ HMB491Y1/ HMB496Y1*/ JEH455H1/ ANA301H1/ BIO270H1/ BIO271H1/ BCH311H1/ BCH340H1/ BCH422H1/ BCH426H1/ BCH440H1/ BCH441H1/ BCH445H1/ BCH447H1/ CSB325H1/ CSB345H1/ CSB346H1/ CSB349H1/ CSB351Y1/ CSB443H1/ EEB255H1/ EEB318H1/ EEB319H1/ EEB323H1/ EEB324H1/ EEB325H1/ EEB365H1/ EEB375H1/ EHJ352H1/ EEB428H1/ EEB445H1/ EEB465H1/ IMM340H1/ IMM350H1/ IMM430H1/ LMP363H1/ LMP402H1/ LMP403H1/ LMP406H1/ LMP440H1/ LMP450H1/ LMP460H1/ MIJ485H1/ MGY377H1/ MGY378H1/ MGY441H1/ MGY470H1/ NFS284H1/ NFS382H1/ NFS400H1/ NFS485H1/ NFS486H1/ NFS487H1/ NFS488H1/ NFS489H1/ NFS490H1/ PCL201H1/ PCL302H1/ PCL362H1/ PCL386H1/ PCL469H1/ PCL470H1/ PCL482H1/ PCL483H1/ PSL350H1/ PSL420H1/ PSL421H1/ PSY369H1/ PSY371H1/ PSY372H1/ PSY440H1/ PSY460H1/ PSY470H1/ PSY471H1/ PSY494H1

**A research project from a different unit may be accepted with prior written approval from Human Biology.*

Human Biology Major Notes:

1. Courses can only count toward one requirement, even if listed as options to multiple requisites of the program.
2. Not all courses listed have priority enrolment for Human Biology majors. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
3. The Human Biology major cannot be paired with any other Human Biology Program managed major program.

Neuroscience Major (Science Program) - ASMAJ1472

HMB: Neuroscience

Neuroscience is an interdisciplinary field aimed at understanding the brain and nervous system utilizing integration of research at the molecular, cellular, and organismal levels, and through all stages of human development. The application of neuroscience has important implications for understanding human behaviour and for promoting the development of effective strategies for diagnosing and treating nervous system disorders. The objective of the HMB: Neuroscience specialist and major programs is to provide students with a solid foundation and facilitates the integration of concepts from multiple fields to their understanding of neuroscience.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Note there are different options depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

For students who have completed between 4.0 and 8.5 credits:

Variable Minimum Grade

Minimum grades in required courses or their equivalents are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 55% in BIO130H1, a final grade average lower than 70% in (CHM135H1, CHM136H1), or a final grade lower than 70% in CHM151Y1 will not be considered for admission.

Please note that obtaining the minimum final grades does not guarantee admission to the program.

For students who have completed 9.0 or more credits:

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO230H1/ BIO255H1
- HMB265H1/ BIO260H1
- BCH210H1
- PSL300H1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 55% in BIO230H1/ BIO255H1 will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

Students applying for admissions to the program utilizing transfer credits will be considered on a case-by-case basis. Students entering from CEGEP or from another university should contact hmb.undergrad@utoronto.ca after their transfer credit assessment has been complete for program enrolment assessment. Please consult the Arts & Science Program Toolkit for more information on program enrolment.

Completion Requirements:

Required Courses (8.0 credits, including at least 0.5 credit at the 400-level)

Chemical and Physical Foundations of Biological Systems

1. (CHM135H1, CHM136H1)/ CHM151Y1
Transfer credits will be accepted in lieu of the chemistry requirements only if they carry a direct exclusion or equivalency to a pre-approved chemistry course.
2. MAT135H1/ PHY131H1/ PHY151H1/ CSC108H1/ CSC110Y1/ CSC148H1
3. BCH210H1

Biological Foundations of Living Systems

4. BIO120H1, BIO130H1
5. BIO230H1/ BIO255H1
6. HMB265H1/ BIO260H1
7. PSL300H1

Neuroscience Concentration Courses

8. HMB200H1
9. HMB300H1

10. CJH332H1

11. 0.5 credit from HMB320H1/ JHA410H1/ ANA300Y1

12. 0.5 credit from HMB360H1/ HMB385H1/ HMB420H1/ HMB430H1/ HMB440H1/ HMB442H1 / HMB450H1/ HMB460H1/ HMB471H1/ HMB473H1 / HMB490Y1/ HMB491Y1/ HMB496Y1*/ JHA410H1/ CSB345H1/ CSB346H1/ CSB430H1/ CSB432H1/ CSB445H1/ CSC321H1/ LMP410H1/ NEW335H1/ BPM335H1/ NFS489H1/ PCL475H1/ PCL476H1/ PSL374H1/ PSL432H1/ PSL440Y1/ PSL445H1/ PSL446H1/ PSL450H1/ PSL452H1/ PSL472H1/ PSY342H1/ PSY371H1/ PSY372H1/ PSY390H1/ PSY395H1/ PSY460H1/ PSY470H1/ PSY471H1/ PSY473H1/ PSY480H1/ PSY490H1/ PSY492H1/ PSY493H1/ PSY492H1/ PSY493H1/ PSY494H1/ PSY496H1

Data Analysis and Research-Based Courses

13. 0.5 credit in statistics: EEB225H1/ STA220H1/ STA288H1/ PSY201H1

14. 0.5 credit from a higher-year lab course: HMB310H1/ HMB314H1/ PSY369H1

** A research project from a different unit may be accepted with prior written approval from Human Biology.*

Neuroscience Major Notes:

1. *Courses can only count toward one requirement, even if listed as options to multiple requisites of the program.*
2. *Not all courses listed have priority enrolment for Neuroscience majors. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.*
3. *The Neuroscience major cannot be paired with any other Human Biology Program managed major program.*
4. *Effective Fall 2021, courses associated with New College's Buddhism, Psychology and Mental Health program will have the new "BPM" designator.*

Course Group

Neuroscience Centric Courses:

HMB200H1, HMB300H1, HMB310H1, HMB320H1, CJH332H1, HMB360H1, JHA410H1, HMB420H1, HMB430H1, HMB440H1, HMB442H1, HMB450H1, HMB460H1, HMB473H1

Important Notes About Human Biology Courses

Human Biology Course Prerequisites & Co-requisites

Students are advised that the Human Biology Program enforces prerequisites and co-requisites on all courses offered by the program. Students are expected to know the prerequisites of courses they wish to take and ensure they have the necessary prerequisites prior to enrolment.

Should a student wish to seek a prerequisite waiver, the request must be made prior to enrolling in the course. Please email the program office at hmb.undergrad@utoronto.ca with such requests. If a student is enrolled in a Specialist in Statistical Science: Methods and Practice, or is planning on using transfer credits, or credits obtained from UTSC/UTM, in lieu of stated prerequisites/co-requisites, please contact the program office prior to enrolling in courses to ensure your alternate credits will be accepted.

Please note that if a prerequisite is a credit count, we generally will allow a 0.5 credit difference (i.e., have 13.5 credits complete when 14.0 credits is required). Should a student have all other prerequisites and if enrolment pressure is not too high, the credit prerequisite will be waived. An email request for a waiver of this type of prerequisite is not necessary.

Please note that 300-level courses with the following joint course codes are automatically accepted when the prerequisite states "A HMB 300-level course:" CJH, EHJ, JNH.

Human Biology Courses

HMB200H1 - Introduction to Neuroscience

Hours: 24L/12T

An introductory course that explores the development, physiology and continually changing function of the nervous system as it relates to certain types of human behaviour. Critical analysis of scientific evidence is used to enrich learning.

Prerequisite: [BIO120H1](#), [BIO130H1](#)

Recommended Preparation: [PSL300H1](#)

Regarding Human Biology 400-level Courses

Given that all students enrolled in a Human Biology program require, at least, 0.5 credit of HMB 400-level courses and due to the popularity of these courses, student entering their 4th year of study will be given the opportunity to ballot for 0.5 credit of HMB 400-level fall/winter courses. The balloting process will be conducted during the period immediately preceding course enrolment and students who have successfully completed this process will be pre-enrolled in 0.5 credit of HMB 400-level courses; students will then be able to enrol and/or waitlist for other HMB 400-level courses during the regular course enrolment period. Students who have completed or will complete their HMB 400-level course requirements by the Fall of their 4th year are not eligible to participate in balloting.

There are no individual prerequisite exceptions on any HMB 400-level course. Students are required to check all prerequisites prior to enrolling in HMB 400-level courses. Students who enrol in and do not meet the stated prerequisites of an HMB course will be removed.

Students planning to use transfer credits in lieu of the prerequisites must email hmb.undergrad@utoronto.ca before enrolling in the course to request that transfer credits be accepted in lieu of the stated prerequisites.

Regarding Human Biology "Tiered Waitlists"

The Human Biology Program employs "tiered waitlists" on all courses that have the enrolment indicator of R1 or P that has unequal spots. (HMB does not use the R2 enrolment control). For an explanation of how Tiered Waitlists work please visit the ["HMB Tiered Waitlist Explained"](#) webpage.

Breadth Requirements: Living Things and Their Environment (4)

HMB201H1 - Introduction to Fundamental Genetics and its Applications

Hours: 24L/12T

The course provides a comprehensive introduction to a variety of therapeutic approaches including gene therapy, CRISPR-based gene editing, epigenetic manipulations & regenerative medicine. This course consists of three parts: tools and techniques of gene & genome manipulations; medical, environmental and agricultural biotechnology applications; and ethical, legal and social

aspects of modern biotechnology as it pertains to human health and wellbeing.

Prerequisite: BIO120H1, BIO130H1

Corequisite: EEB225H1/ STA220H1/ STA288H1/ PSY201H1

Recommended Preparation: HMB265H1/ BIO260H1

Breadth Requirements: Living Things and Their Environment (4)

HMB202H1 - Introduction to Health and Disease

Hours: 24L/12P

An introductory course in Health and Disease using an interdisciplinary approach that integrates bacteriology and virology with other aspects of human biology, including chronic disease and neoplasia. An exploration of the key concepts and approaches that are necessary for understanding the dynamic nexus of human health and disease. (Lab Materials Fee: \$30)

Prerequisite: BIO120H1, BIO130H1

Exclusion: HMB203H1/ HMB204H1

Recommended Preparation: BIO230H1/ BIO255H1

Breadth Requirements: Living Things and Their Environment (4)

HMB203H1 - Introduction to Global Health

Hours: 24L/12T

An introductory course covering the theories, operational components and strategies of implementing health care in resource-poor settings. Topics may include education, control of vector-borne diseases, essential drug provision, maternal and child health, nutrition, incorporation of alternative and complementary technologies, community participation and deployment of health service providers

Prerequisite: BIO120H1, BIO130H1

Exclusion: HMB202H1/ HMB204H1

Breadth Requirements: Living Things and Their Environment (4)

HMB204H1 - Introduction to Human Biology

Hours: 24L/12T

An introduction to the biological, health, environmental, and sociopolitical issues that influence human health and

well-being. Topics include genetic variation within and across human populations, biological variation related to the environment, determinants of health and disease, and human behaviour and development.

Prerequisite: BIO120H1, BIO130H1

Exclusion: HMB202H1/ HMB203H1

Breadth Requirements: Living Things and Their Environment (4)

HMB226H1 - Indigenous Holistic Health

Hours: 2P/22S

What is holistic health in an Indigenous framework? How can holistic health (physical, mental, emotional, and spiritual) be ethically explored to inform health and healing? What is cultural safety in health care systems? This course explores the effects of traditional practices, culture, activities, arts, land-based healing, music and ceremony in health and healing.

Enrolment is by application. Detailed application instructions are available on the HMB Special Enrolment website: <https://www.hmb.utoronto.ca/special-enrolment>. The application will ask about motivation and/or relevant experience. Applications are received during priority course enrollment, and late applications considered if space remains. Applications will be assessed based on prerequisites, submitted answers to application prompts and cGPA. This course is open to all Human Biology students.

Corequisite: HMB200H1/ HMB201H1/ HMB202H1/ HMB203H1/ HMB204H1/ HST209H1

Breadth Requirements: Living Things and Their Environment (4)

HMB265H1 - General & Human Genetics

Hours: 24L/12T

An introduction to classical and modern methods of genetic analysis. Topics include Mendelian genetics, the genetics of human population and disease, genomics, and applications of genetics to human society.

Prerequisite: BIO120H1, BIO130H1, (CHM135H1/ CHM139H1, CHM136H1/ CHM138H1)/ CHM151Y1

Exclusion: BIO260H1/ BIO207H5

Recommended Preparation: Recommended Co-requisite: BIO230H1/ BIO255H1

Breadth Requirements: Living Things and Their Environment (4)

HMB299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...> Not eligible for CR/NCR option.

HMB300H1 - Neurobiology of Behaviour

Hours: 24L/12T

This neuroscience course focuses on higher brain functions and the mechanisms underlying human and animal behaviours. Topics may include the emerging role of the gut microbiome's impact on behaviour, pathogens that alter neuronal development and the biological basis of mindfulness and placebos. In addition, the impact that exercise and sleep play in modulating these behaviours are examined. Common experimental techniques used in neuroscience research such as brain imaging and cellular genetics are emphasized.

Prerequisite: BIO230H1/ BIO255H1, HMB200H1/ PSY290H1/ PSL300H1/ CJH332H1

Breadth Requirements: Living Things and Their Environment (4)

HMB301H1 - Biotechnology

Hours: 24L/12T

Students gain an appreciation for how science, government and society drive the development of biotechnology products. Topics include emerging immunotherapies, "living therapeutics", emerging challenges, CRISPR-based therapeutics, emerging diagnostics, and stem cells and regenerative medicine.

Prerequisite: HMB201H1/ HMB265H1/ BIO260H1, EEB225H1/ STA220H1/ STA288H1/ PSY201H1

Recommended Preparation: HMB360H1

Breadth Requirements: Living Things and Their Environment (4)

HMB302H1 - Vertebrate Histology and Histopathology

Hours: 24L/36P

Laboratory and lecture course studying the structure of the cell, various tissues and organ systems. Emphasis is on functional morphology and the adaptive response

(including the inflammatory reaction) by comparing histological sections of normal tissues and organs with common diseases including neoplasia, respiratory, and liver disease. (Lab Materials Fee: \$27)

Prerequisite: BIO230H1/ BIO255H1

Breadth Requirements: Living Things and Their Environment (4)

HMB303H1 - Global Health and Human Rights

Hours: 28L/8S

The Global Health & Human Rights course uses a multidisciplinary approach to consider the theory and practice of global health as well as human rights from a global health perspective. The course has an emphasis on the social, historical, economic and political determinants of global health and human rights. The critical approach used in the course will also allow students to begin to consider the limitations and contradictions inherent in the theory and practice of global health and in human rights.

Prerequisite: Completion of 9.0 credits including one of HMB202H1/ HMB203H1/ HMB204H1/ HST209H1/ HST211H1/ HST250H1

Breadth Requirements: Society and its Institutions (3)

HMB306H1 - Ethical Considerations in Emerging Technology

Hours: 14L/10S

Advancing technology increases our ability to intervene in the course of natural events involving human health and well being. Questions arise as whether we ought to and who will benefit or be harmed. This course considers the far-reaching bioethical implications of emerging biotechnology. Topics to be explored include-but are not limited to- ethical considerations in emerging reproductive technologies, genetic alteration/genetic enhancement. Use of life support technologies, synthetic life, life extension.

Prerequisite: BIO230H1, HMB265H1/ BIO260H1

Breadth Requirements: Living Things and Their Environment (4)

HMB310H1 - Laboratory in Neuroscience

Hours: 12L/36P

A laboratory course based on current research techniques for students in the Neuroscience program. Lab topics may include human brain imaging and disorders, electrophysiology, cell culture, and changes in gene expression during neuronal development. Labs start in the first week of term. (Lab Materials Fee: \$72)

Prerequisite: Completion of 9.0 credits including one of [HMB200H1](#)/ [PSY290H1](#), one of [HMB265H1](#)/ [BIO260H1](#), and one of [BIO230H1](#)/ [BIO255H1](#)

Corequisite: [PSL300H1](#)

Exclusion: [HMB311H1](#)/ [HMB312H1](#)/ [HMB314H1](#)/ [PSY359H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB311H1 - Laboratory in Fundamental Genetics and its Applications

Hours: 12L/36P

A laboratory course based on current research techniques for students in the Fundamental Genetics and its Applications programs. Lab topics may include molecular biology and animal cell culture techniques, nutrigenomics; an overview of microarrays and a CRISPR module. Labs start in the first week of term. (Lab Materials Fee: \$124)

Prerequisite: Completion of 9.0 credits including [HMB201H1](#), one of [HMB265H1](#)/ [BIO260H1](#), and one of [BIO230H1](#)/ [BIO255H1](#)

Exclusion: [HMB310H1](#)/ [HMB312H1](#)/ [HMB314H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB312H1 - Laboratory in Health and Disease

Hours: 12L/36P

A laboratory course based on current research techniques and topics which may include basic microbiology, molecular biology and animal cell culture techniques, immunocytochemistry, changes in gene expression, and histological techniques. Labs start in the first week of term. (Lab Materials Fee: \$103)

Prerequisite: Completion of 9.0 credits including one of [HMB202H1](#)/ [HMB203H1](#)/ [HMB204H1](#), one of [HMB265H1](#)/ [BIO260H1](#), and one of [BIO230H1](#)/ [BIO255H1](#)

Corequisite: [BCH210H1](#)

Exclusion: [HMB310H1](#)/ [HMB311H1](#)/ [HMB314H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB314H1 - Laboratory in Human Biology

Hours: 12L/36P

Students analyze whole body, cellular, and molecular responses to stress. Techniques range from those standard in medical practice (e.g., fitness measures, blood pressure, lung function) to current research techniques (cell culture, changes in gene expression). Students gain technical and analytical skills as they work at the bench to design and carry out individual and group experiments. Labs start in the first week of term. (Lab Materials Fee: \$60)

Prerequisite: Completion of 9.0 credits including one of [HMB265H1](#)/ [BIO260H1](#), and one of [BIO230H1](#)/ [BIO255H1](#)

Corequisite: [PSL300H1](#), [PSL301H1](#)

Exclusion: [HMB310H1](#)/ [HMB311H1](#)/ [HMB312H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB320H1 - Neuroanatomy

Hours: 24L/4T/10P

This is a rigorous, introductory course that addresses the structure of the vertebrate central nervous system with an emphasis on functional human neuroanatomy. It is designed for students who intend to continue with studies in the Neurosciences and related areas.

Prerequisite: Completion of 9.0 credits including [PSL300H1](#), [HMB200H1](#), and one of [BIO230H1](#)/ [BIO255H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB321H1 - Topics in Genetics

Hours: 24L/12T

The overall theme of this course is human genetics in disease. Topics include the molecular basis of human disease, using model organisms to identify disease-related genes, and genetic counseling. Expert guest lectures from clinical and basic sciences as well as small group work in tutorials build in-depth understanding.

Prerequisite: Completion of 9.0 credits including one of [HMB265H1](#)/ [BIO260H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB322H1 - Topics in Health & Disease

Hours: 24L/12T

Explore the scientific basis and interdisciplinary healthcare practices of several diseases (diseases vary by year). Discuss current issues related to the biology and the impact of these diseases.

Prerequisite: Completion of 9.0 credits including one of [HMB202H1](#)/ [HMB203H1](#)/ [HMB204H1](#), one of [BIO230H1](#)/ [BIO255H1](#), and [PSL300H1](#)

Corequisite: [PSL301H1](#)

Recommended Preparation: [HMB302H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB323H1 - Global Health Research

Hours: 24L/12T

Health is a responsibility shared worldwide. Globalization of health has impacted biomedical research. Students will explore current global health research advances and build skills in the design and conduct of global health research studies.

Prerequisite: Completion of 9.0 credits including one of [HMB202H1](#)/ [HMB203H1](#)/ [HMB204H1](#), and one of [BIO230H1](#)/ [BIO255H1](#)

Breadth Requirements: Living Things and Their Environment (4)

CJH332H1 - Cellular and Molecular Neurobiology of the Synapse

Previous Course Number: CSB332H1

Hours: 36L

Examination of all aspects of the synapse in both the peripheral and central nervous systems of invertebrates and vertebrates. Topics include: neuroplasticity, synapse formation, synaptic transmission, synaptic modulation, and the molecular biological basis of neurodegenerative disorders.

Prerequisite: [BIO271H1](#)/ [PSL300H1](#)

Exclusion: [CSB332H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB342H1 - Epidemiology of Health & Disease

Hours: 24L/12T

This course engages students in the fundamental science of epidemiology applied to health and disease. After an introduction to various measures of health and disease, the scientific methods used to investigate, analyze, prevent and control health problems will be illustrated using social, biomedical and public health examples

Prerequisite: Completion of 9.0 credits including one of [BIO120H1](#)/ [BIO130H1](#)/ [HST209H1](#)

Exclusion: [HST373H1](#)

Recommended Preparation: [STA220H1](#)/ [STA288H1](#)/ [EEB225H1](#)/ [PSY201H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

JAH350H1 - AIDS, Outbreaks, Pandemics: Challenges and Successes in Africa

Previous Course Number: JNH350H1

Hours: 24L

Explores a range of historical and current outbreaks, pandemics and epidemics such as AIDS, COVID-19 and Ebola in Africa through a social science lens. It introduces students to major concepts, events and debates that have and continue to shape understanding of the HIV/AIDS epidemic, Ebola outbreak and COVID-19 pandemic, and the challenges and responses to these distinct health crises. Through a critical lens, students will engage diverse and interdisciplinary scholarship from public health, medical anthropology, sociology, African studies, and related fields within the health and social sciences fields to explore the converging factors that influence responses to health crises and their broader implications.

Prerequisite: 9.0 credits

Exclusion: [JNH350H1](#)

Recommended Preparation: [AFR150Y1](#)/ [AFR290H1](#) or [HMB203H1](#)/ [HMB202H1](#) or interested students with relevant background

Breadth Requirements: Society and its Institutions (3)

EHJ352H1 - Human Evolutionary Genomics

Hours: 24L/12T

Human genome diversity and evolution with a focus on current research. The course integrates applications of

human evolutionary genomics to the understanding of human history and adaptation, the causes of disease, and genome structure and function. Topics include: comparative genomics, population genomics of adaptation, association mapping, polygenic scores, and repetitive/selfish DNA.

Prerequisite: BIO220H1, BIO260H1/ HMB265H1

Breadth Requirements: Living Things and Their Environment (4)

HMB360H1 - Neurogenomics

Hours: 24L/12T

This course covers two main themes: Emerging gene or cell-based therapies to treat neurological disorders and genome engineering tools and techniques to investigate both normal and abnormal brain function. Topics may include cell reprogramming & stem cell technologies, brain organoids & tissue engineering, emerging genome engineering approaches to treat neurodegenerative diseases and behavioural disorders, and optogenetics to probe neural circuit function. Tutorials emphasize critical analysis of primary research.

Prerequisite: Completion of 9.0 credits including one of HMB265H1/ BIO260H1, and one of HMB200H1/ HMB201H1

Breadth Requirements: Living Things and Their Environment (4)

HMB385H1 - The Human Microbiome in Health & Disease

Hours: 24L/12T

The gut microbiome affects numerous aspects of human health and disease, from metabolic and neurodevelopmental disorders to cancer and host behaviour. This course explores the physiological role of the microbiome in human development, human disease, drug efficacy and drug resistance and the emerging gut microbiome as diagnostic and therapeutic target.

Prerequisite: BIO230H1/ BIO255H1, HMB265H1/ BIO260H1, HMB200H1/ HMB201H1/ HMB202H1/ HMB203H1/ HMB204H1

Recommended Preparation: HMB201H1, HMB301H1

Breadth Requirements: Living Things and Their Environment (4)

HMB394Y0 - International Research Project in Human Biology

Your individual, independent research project is supervised by a faculty member in an approved university. This unique opportunity to conduct a lab-based research project is open to students in any Human Biology program. Coordinated by Centre for International Experience. Not eligible for CR/NCR option.

Prerequisite: 8.5 credits including relevant courses in human biology.

HMB396Y0 - International Research Project in Human Biology

Your individual, independent research project is supervised by a faculty member in an approved university. This unique opportunity to conduct a lab-based research project is open to students in any Human Biology program. Not eligible for CR/NCR option. Coordinated by Woodsworth College.

Prerequisite: An approved 300-series science laboratory course and permission of the Human Biology Program from which application forms may be obtained.

HMB398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...> Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits and permission of the Human Biology Program from which application forms may be obtained.

HMB399H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...> Not eligible for CR/NCR option.

HMB399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

HMB401H1 - Biomedical Advances & Technologies

Hours: 24L/12T

This course introduces life science students to biomedical advances and technologies in medicine, including drug patents, medical device implants, diagnostic and medical device software. Limitations of patent protection in commercializing medical products, and limitations to scalability may also be discussed. Specific topics vary from year to year and will be based on the course instructor's area(s) of expertise.

Prerequisite: Completion of 14.0 credits including one of [HMB301H1](#)/ [HMB321H1](#)/ [HMB360H1](#)/ [BCH311H1](#)/ [CSB349H1](#)/ [MGY311Y1](#)/ [PSL350H1](#)

Recommended Preparation: A statistics course

Breadth Requirements: Living Things and Their Environment (4)

HMB402H1 - Topics in Translational Medicine

Hours: 18L/6S

The bridge between basic scientific research and clinical practice integrates fundamental knowledge about molecular/cellular mechanisms and clinical disorders to increase the potential for new medical treatments, therapies and interventions as well as understanding of disease processes. Specific topics vary from year to year and will be based on the instructor's area(s) of expertise.

Prerequisite: Completion of 14.0 credits including [BCH210H1](#), one of [BIO230H1](#)/ [BIO255H1](#), one of [HMB302H1](#)/ [HMB321H1](#)/ [HMB322H1](#)/ [BCH311H1](#)/ [CSB349H1](#)/ [MGY311Y1](#)/ [PSL350H1](#)

Recommended Preparation: [BCH311H1](#)/ [CSB349H1](#)/ [MGY311Y1](#)/ [PSL350H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB406H1 - Health Care Ethics

Hours: 8L/16S

Since research involving human subjects lays the foundation for innovation in modern health care, this course examines health care ethics along a continuum from bench to bedside. Ethical issues are discussed in the

context of specific cases involving human research, as well as contemporary clinical practice.

Prerequisite: Completion of 14.0 credits including 0.5 HMB/CJH/EHJ/JNH credit at the 300-level, and 0.5 additional credit from [HMB306H1](#), [PHL281H1](#), or another ethics course with prior approval from the unit

Breadth Requirements: Living Things and Their Environment (4)

JHA410H1 - Clinical Neuroimaging

Hours: 24L/12T

This course focuses on the use of neuroimaging techniques in understanding how trauma, disorders, and disease impact neural structure and function. Lectures will focus on introduction to techniques and clinical/research applications. Lab work will focus on the development of practical skills including image processing, analyses, and experimental design.

Prerequisite: Completion of 9.0 credits including [PSL300H1](#), [BIO230H1](#), and one of [HMB200H1](#)/ [PSY290H1](#)/ [ANA300Y1](#)

Recommended Preparation: [HMB320H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB420H1 - Seminar in Neurobiology of Behaviour

Hours: 12L/12S

This seminar course focuses on recent research into the neurobiology underlying human behaviour. A variety of normal and abnormal human behaviours are studied which may include: voluntary action; moral cognition; hedonism; aggression; mental health; addiction; the impact of the gut microbiome on brain development and health.

Prerequisite: Completion of 14.0 credits including [HMB200H1](#), [HMB300H1](#), and one of [HMB320H1](#)/ [ANA300Y1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB421H1 - Seminar in Fundamental Genetics and its Applications

Hours: 12L/12S

Theme based lecture and seminar course underlining current medical research in relation to the areas of genes and genetics. Topics vary yearly.

Prerequisite: Completion of 14.0 credits including HMB201H1 and one of HMB265H1/ BIO260H1

Recommended Preparation: HMB321H1/ BCH311H1/ CSB349H1/ MGY311Y1/ PSL350H1

Breadth Requirements: Living Things and Their Environment (4)

HMB422H1 - Seminar in Health & Disease

Hours: 16L/8S

This course focuses on various medical research related to human disease. Topics vary based on course instructor's area(s) of expertise.

Prerequisite: Completion of 14.0 credits including PSL300H1, PSL301H1, one of HMB302H1/ HMB322H1

Breadth Requirements: Living Things and Their Environment (4)

HMB430H1 - Trends in Neuroscience

Hours: 18L/6S

Current research covering the breadth of neuroscience is showcased by members of the Collaborative Program in Neuroscience. Topics vary yearly, but cover the spectrum from molecular through genetic, cellular, developmental, systems, behavioural and modelling. As well, approaches to studying neurodegenerative diseases and clinical neurophysiology are introduced.

Prerequisite: Completion of 14.0 credits including HMB200H1, CJH332H1, and one of HMB320H1/ JHA410H1/ ANA300Y1

Breadth Requirements: Living Things and Their Environment (4)

HMB431H1 - Innovation in Genome Engineering and Translational Research

Hours: 8L/16S

From bench to bedside, this seminar-based course explores innovation in research and technology and their application in the medical field. Special emphasis on innovative genetic engineering approaches used in combination with stem cell technologies to transform the field of personalized and regenerative medicine.

Prerequisite: Completion of 14.0 credits including one of HMB301H1/ HMB360H1/ HMB321H1

Breadth Requirements: Living Things and Their Environment (4)

HMB432H1 - Topics in Histology & Histopathology

Hours: 12L/12S

Lecture and seminar course emphasizing current research. Topics may include the digestive system, cardiovascular system, respiratory system, stem cells, and neoplasia. Topics vary depending on class interest.

Prerequisite: Completion of 14.0 credits including one of HMB302H1/ HMB322H1

Recommended Preparation: BCH311H1/ CSB349H1/ MGY311Y1/ PSL350H1

Breadth Requirements: Living Things and Their Environment (4)

HMB433H1 - Topics in Global Health

Hours: 16L/8S

Seminar and theme based course examining the opportunity to apply basic knowledge of biological determinants of disease to designing health system interventions and informatics that can have a global impact in the near term.

Prerequisite: Completion of 14.0 credits including one of HMB303H1/ HMB323H1

Breadth Requirements: Living Things and Their Environment (4)

HMB434H1 - Complementary & Integrative Medicine

Hours: 20L/4S

Introduction to complementary and alternative medical therapies. Topics include, Traditional Chinese Medicine, Naturopathy, Ayurvedic, and Mind-Body Practices. Biological mechanisms will be emphasized and therapies will be critically analyzed from an evidence-based research perspective. Integrating alternative therapies into Western practices with a focus on personalized medicine will be discussed.

Prerequisite: Completion of 14.0 credits including BCH210H1, one of BIO230H1/ BIO255H1, one of HMB302H1/ HMB312H1/ HMB314H1/ HMB322H1/ HMB323H1/ HMB342H1

Recommended Preparation: HMB342H1/ CSB349H1/ PSL350H1/ BCH311H1

Breadth Requirements: Living Things and Their Environment (4)

HMB435H1 - Selected Topics in Molecular Cell Biology

Hours: 16L/8S

Theme-based lecture and seminar course underlining current basic science research in the area of molecular and cell biology, focusing on cell migration and its relevance to human health and disease. Topics may focus on the impact of fundamental processes underlying the cell biology, physiology and pathophysiology of cell motility in a variety of systems (e.g. immune, nervous system, cancer context).

Prerequisite: Completion of 14.0 credits including one of BCH311H1/ CSB349H1/ MGY311Y1/ PSL350H1

Breadth Requirements: Living Things and Their Environment (4)

HMB437H1 - The Biology of the Human Metallome

Hours: 24L

This course will discuss how heavy metals are integral to organ function through various biological pathways, the importance of metal regulation and control and its relationship with gene transcription. An introduction of metallo-therapeutics will also be featured, ranging from neurodegenerative therapies to cancer treatment.

Prerequisite: Completion of 14.0 credits including one of HMB265H1/ BIO260H1, one of BIO230H1/ BIO255H1, and BCH210H1

Breadth Requirements: Living Things and Their Environment (4)

HMB440H1 - Dementia

Hours: 24L

This course, featuring a service-learning component, explores dementia. In patients with dementia, intellectual, social and occupational functioning deteriorate. The course addresses the multi-disciplinary aspects of dementia (clinical, genetic, molecular, social) with a focus on the most common cause of dementia, Alzheimer's disease.

Enrolment is by application. Detailed application instructions are available on the HMB Special Enrolment website: <https://www.hmb.utoronto.ca/special-enrolment>. The application will ask about motivation and/or relevant experience. Applications are received during priority course enrollment, and late applications considered if space remains. Specific application review and response dates will be available on the HMB Special Enrolment website. Applications will be assessed based on prerequisites, submitted answers to application prompts and cGPA. This course is open to all Human Biology students.

Prerequisite: Completion of 14.0 credits including PSL300H1, one of HMB265H1/ BIO260H1, and one of HMB300H1/ HMB302H1/ HMB320H1/ HMB321H1/ ANA300Y1

Breadth Requirements: Living Things and Their Environment (4)

HMB441H1 - Genetics of Human Disease

Hours: 24L

This advanced course aims to provide students with current, in-depth knowledge of the genetics of specific human diseases, including single gene (e.g., Huntington disease), multifactorial (e.g. Alzheimer's disease), and non-Mendelian (e.g. mitochondrial DNA-related disease) disorders, and how the use of genetics to elucidate disease mechanisms can lead to treatments and personalized medicine in order to improve healthcare.

Prerequisite: Completion of 14.0 credits including BCH210H1, one of HMB265H1/ BIO260H1, one of HMB302H1/ HMB321H1/ HMB322H1/ HMB360H1/ BCH311H1/ CSB349H1/ MGY311Y1/ PSL350H1

Recommended Preparation: HMB321H1, PSL300H1, PSL301H1

Breadth Requirements: Living Things and Their Environment (4)

HMB442H1 - Brain Tumours: From Diagnosis to Treatment Effects

Hours: 16L/8S

This course focuses on current insights in brain tumour etiology and pathology as well as treatment options and side-effects. Based on a seminar format, this course is highly discussion-based and collaborative in nature.

Prerequisite: Completion of 14.0 credits including PSL300H1, and one of HMB302H1/ HMB322H1/ HMB300H1/ HMB360H1/ CJH332H1

Breadth Requirements: Living Things and Their Environment (4)

HMB443H1 - Global Hidden Hunger

Hours: 18L/6S

Vitamin and mineral deficiencies, termed 'hidden hunger,' affect about half the world's population. Explore the global nature, catastrophic consequences, and causes of these deficiencies. Discuss formulation and implementation of international, national, and local policies to alleviate 'hidden hunger' especially in infants and young children. A service-learning opportunity is integrated. Students will be required to contribute to a local community organization while using course knowledge to develop a project or initiative beneficial to the organization and community.

Enrolment is by application. Detailed application instructions are available on the HMB Special Enrolment website: <https://www.hmb.utoronto.ca/special-enrolment>. The application will ask about motivation and/or relevant experience. Applications are received during priority course enrollment, and late applications considered if space remains. Specific application review and response dates will be available on the HMB Special Enrolment website. Applications will be assessed based on prerequisites, submitted answers to application prompts and cGPA. This course is open to all Human Biology students.

Prerequisite: Completion of 14.0 credits including one of [BIO230H1](#)/ [BIO255H1](#), and 0.5 HMB/CJH/EHJ/JNH credit at the 300-level/ [NFS382H1](#)

Recommended Preparation: [PSL301H1](#), [CSB349H1](#)/ [PSL350H1](#)/ [BCH311H1](#)

Breadth Requirements: Society and its Institutions (3)

HMB450H1 - Neurodevelopmental Diversity and Diseases

Hours: 24L/12T

Brain development plays a critical role in human health as early neurological mechanisms provide the foundation for future complex neurological processes. This course will examine how neurodevelopmental differences contribute to neurological diversity, disorders and/or diseases, such as autism, epilepsy, and paediatric multiple sclerosis. Current research from basic, translational, and clinical perspectives will be examined. Case studies, the impact of neurodevelopmental differences, and respect for neurodiversity will be emphasized.

Prerequisite: Completion of 14.0 credits including [HMB200H1](#), and one of [HMB320H1](#)/ [ANA300Y1](#)/ [JHA410H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB452H1 - Personalized Medicine

Hours: 12L/12S

The bridge between basic scientific research and clinical practice integrates fundamental knowledge about molecular/cellular mechanisms and clinical disorders to increase the potential for new medical treatments and technologies as well as understanding of disease processes. Specific topics vary from year to year and will be based on the course instructor's area(s) of expertise.

Prerequisite: Completion of 14.0 credits including one of [HMB302H1](#)/ [HMB321H1](#)/ [HMB322H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB453H1 - AIDS: A Global Perspective

Hours: 6L/18S

Seminars explore the global AIDS crisis. Varying epidemiological profiles of AIDS are placed in broader biological, social, and cultural frameworks. The impact of globalization and structural inequality on local cultures and lifestyles provides a backdrop to the discussions.

Prerequisite: Completion of 14.0 credits including 0.5 HMB/CJH/EHJ/JNH credit at the 300-level/ [JSU237H1](#)/ [PHS300H1](#)/ [JNH350H1](#)

Exclusion: [HAJ453H1](#)

Breadth Requirements: Living Things and Their Environment (4)

JEH455H1 - Current Issues in Environment and Health

Hours: 16L/8S

This course introduces students to complex issues at the interface between environment and health where health is broadly defined. Each year a current and controversial case study is explored from scientific, medical, political and policy perspectives. The course takes students from the molecular to individual to population and societal levels.

Prerequisite: Completion of 14.0 credits including one of [ENV341H1](#)/ [HMB302H1](#)/ [HMB312H1](#)/ [HMB314H1](#)/ [HMB322H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB460H1 - Seminars in Neurobiology of Mental Health

Hours: 12L/12S

This seminar course focuses on recent research into the neurobiology underlying mental health issues and is highly discussion-based and collaborative in nature. Specific topics are indicated by subtopic (which may vary yearly).

Prerequisite: Completion of 14.0 credits including HMB200H1, HMB300H1, and one of HMB320H1/ANA300Y1/JHA410H1

Breadth Requirements: Living Things and Their Environment (4)

HMB462H1 - Topics in Epidemiology

Hours: 12L/12S

The focus is on the theory and application of biostatistics and epidemiology to current developments in special topics in substantive areas of epidemiology (e.g., chronic disease, environmental & occupational health, infectious disease, methods, social, etc.).

Prerequisite: Completion of 14.0 credits including HMB342H1

Breadth Requirements: Living Things and Their Environment (4)

HMB470H1 - Exercise and Sports Medicine

Hours: 22L/4S

This course considers the health benefits and risks of different forms of exercise, with a goal of understanding how people should exercise, and how much, depending on their athletic and health goals. It introduces elements of exercise science including the biomechanics of tissues and injuries to develop an understanding of how both the quantity and quality of movement and loading contribute to healthy training and/or injury. Some common injuries in sport such as knee injuries and concussions are used as examples of how various patterns of loading can cause injuries.

Prerequisite: Completion of 14.0 credits including PSL300H1, PSL301H1, and 0.5 HMB/CJH/EHJ/JNH credit at the 300-level

Breadth Requirements: Living Things and Their Environment (4)

HMB471H1 - Performance Enhancement

Hours: 24L/4P

Enhancing performance has broad appeal. This course explores current developments for achieving peak performance academically, physically and emotionally. We focus on the scientific basis of the links between performance and stress, and of the benefits and risks of pharmacological methods to achieve performance enhancement. Various stress management skills are introduced.

Prerequisite: Completion of 14.0 credits including PSL300H1, and 0.5 HMB/CJH/EHJ/JNH credit at the 300-level

Breadth Requirements: Living Things and Their Environment (4)

HMB472H1 - Exercise Physiology

Hours: 20L/4S

Examine the physiological and biochemical responses of the human body to both acute and chronic bouts of physical activity. The impact of activity on health, and health on physical activity, is explored by examining adaptations from the cellular to the systemic level of bodily function.

Prerequisite: Completion of 14.0 credits including PSL300H1, PSL301H1, and 0.5 HMB/CJH/EHJ/JNH credit at the 300-level

Breadth Requirements: Living Things and Their Environment (4)

JHU473H1 - Environmental Crises, Human Mobility, and Health

Hours: 24S

Multiple environmental crises – climate change, environmental degradation, loss of biodiversity, resource depletion – are already affecting every inhabited region of the globe, impacting human health in direct, indirect, and systemic ways. At the systemic level, they act as risk multipliers, compounding the effects of pre-existing social and political determinants of health, including human mobility. This course discusses the interactions between environmental crises and human mobility, and their impact on human health.

Prerequisite: HST209H1/ HMB203H1/ HMB303H1
Recommended Preparation: HMB203H1, HST405H1
Breadth Requirements: Society and its Institutions (3)

HMB473H1 - Exercise and Mental Health

Hours: 18L/10P/6S

This course, featuring a service-learning component, discusses how mental well-being is a critical element of total health. We explore the evidence underpinning the role of physical activity in the avoidance of mental disorders, recovery from mental disorders, and the quality of life of those with or without mental disorders.

A short application to enrol in this course is required. Information may be found via the [Human Biology Program website](#).

Prerequisite: Completion of 14.0 credits including [PSL300H1](#), [PSL301H1](#), and 0.5 HMB/CJH/EHJ/JNH credit at the 300-level

Breadth Requirements: Living Things and Their Environment (4)

HMB474H1 - Dental Sciences

Hours: 20L/4S

Dentistry is one of the oldest branches of medicine responsible for the treatment of diseases of oral cavity. This course will introduce students to the key concepts as well as the latest research in the dental sciences, including but not limited to craniofacial structures, bone physiology, odontogenesis, pathogenesis of oral diseases, and technology in dental sciences.

Prerequisite: Completion of 14.0 credits including [PSL300H1](#), [PSL301H1](#), and 0.5 HMB/CJH/EHJ/JNH credit at the 300-level

Breadth Requirements: Living Things and Their Environment (4)

HMB489H1 - Advanced Laboratory in Human Biology

Hours: 36P/12S

Building on their experience in 3rd-year labs, students participate in inquiry-based laboratory experiments in diverse areas of current human biology research. Open to students in any Human Biology program. Labs start in the first week of term. (Lab Materials Fee: \$118)

Prerequisite: Completion of 14.0 credits including one of [HMB310H1](#)/ [HMB311H1](#)/ [HMB312H1](#)/ [HMB314H1](#)

Breadth Requirements: Living Things and Their Environment (4)

HMB490Y1 - Health in Community

Hours: 24L/24T

An experiential learning course exploring health-related challenges and social determinants of health in partnership with local community organizations. Lectures and tutorials will support learning of selected biological and social aspects of health and disease, neuroscience, genetics or population health, and the development of scientific knowledge translation skills relevant to the community agencies. Cannot be taken concurrently with a full year research project course.

Enrolment is by application. Detailed application instructions are available on the HMB Special Enrolment website: <https://www.hmb.utoronto.ca/special-enrolment>. The application will ask about motivation and/or relevant experience. . Applications are received during priority course enrollment, and late applications considered if space remains. Specific application review and response dates will be available on the HMB Special Enrolment website. Applications will be assessed based on prerequisites, submitted answers to application prompts and cGPA. This course is open to all Human Biology students.

Prerequisite: [BIO230H1](#)/ [BIO255H1](#), [HMB265H1](#)/ [BIO260H1](#), [BCH210H1](#), [PSL300H1](#), [PSL301H1](#), [HMB200H1](#)/ [HMB201H1](#)/ [HMB202H1](#)/ [HMB203H1](#)/ [HMB204H1](#)

Exclusion: [HMB473H1](#)

Recommended Preparation: A 300-level science lab course

Breadth Requirements: Living Things and Their Environment (4), Society and its Institutions (3)

HMB491Y1 - Project in Biotechnology Industry

Hours: 12L/200P/12S

Students undertake an academic internship in the biotechnology sector, in addition to meeting regularly in class to discuss and share their experiences. The course is designed to provide students with an opportunity to apply academic learning in a professional context, build their network, and explore potential career paths. Students will be required to complete 200 hours with a placement partner over the duration of the course (normally 8 hours/week).

The course is open to fourth year students. Students work with course staff to secure their internship with our partner organizations.

Enrolment is by application. Detailed application instructions are available on the HMB Special Enrolment

website: <https://www.hmb.utoronto.ca/special-enrolment>. Application packages will be accepted in April every year, and specific due date, course/placement information, and the application form can be found in the website. The application will ask about goals, course expectations and relevant knowledge & experience. Applications will be assessed based on prerequisites, submitted answers to application prompts and relevant knowledge.

Course enrolment will be based on the number of internship opportunities available (which will vary from year-to-year), student qualifications (e.g. performance in relevant courses, qualifications related to the internship positions on offer, and interview performance). Final acceptance into the course is dependent on the official acceptance of a student as an intern with a partner organization.

Not eligible for CR/NCR option.

Prerequisite: 14.0 credits and an application, EEB225H1/ STA220H1/ STA288H1/ PSY201H1

Exclusion: JPM300H1, ASIP Program, students are not permitted to complete the Professional Experience in Biotechnology concurrently with another research project (eg. HMB496Y1 and others).

Recommended Preparation: HMB201H1/ HMB301H1/ HMB360H1

Breadth Requirements: Living Things and Their Environment (4)

HMB496Y1 - Research Project in Human Biology

A research project course for students enrolled in a Human Biology program, supervised by a faculty member appointed in a faculty or division at St. George Campus (Faculties of Arts & Science, Medicine, Engineering, Dalla Lana School of Public Health, etc.). Open to third and fourth year students.

Enrolment is by application. Detailed application instructions are available on the HMB Special Enrolment website: <https://www.hmb.utoronto.ca/special-enrolment>. For your application to be submitted and considered, you must first secure a supervisor for your research project. Applications are due by May 1 for the summer term or September 1 for the fall/winter terms, though students are encouraged to start looking for a supervisor at least 6 months in advance. This course is open to all Human Biology students.

Should a HMB Specialist require help securing a supervisor, the request must be made by email to the Human Biology Program Office no later than July 20 for Academic year projects and January 30 for Summer projects.

Not eligible for CR/NCR option.

Prerequisite: Permission of the Human Biology Program; please refer to the Human Biology Program website for more details

Exclusion: Students are not permitted to do a HMB research project concurrently with another research project

HMB499Y1 - Research Project in Human Biology II

A research project course for students enrolled in a Human Biology program, supervised by a faculty member appointed in a faculty or division at St. George Campus (Faculties of Arts & Science, Medicine, Engineering, Dalla Lana School of Public Health, etc.). Open to third and fourth year students.

Enrolment is by application. Detailed application instructions are available on the HMB Special Enrolment website: <https://www.hmb.utoronto.ca/special-enrolment>. For your application to be submitted and considered, you must first secure a supervisor for your research project. Applications are due by May 1 for the summer term or September 1 for the fall/winter terms, though students are encouraged to start looking for a supervisor at least 6 months in advance. This course is open to all Human Biology students.

Should a HMB Specialist require help securing a supervisor, the request must be made by email to the Human Biology Program Office no later than July 20 for Academic year projects and January 30 for Summer projects.

Not eligible for CR/NCR option.

Prerequisite: HMB496Y1, and permission of the program

Exclusion: Students are not permitted to do a HMB research project concurrently with another research project.

Hungarian

Given by the Centre for European and Eurasian Studies

Introduction

Hungarian is spoken by ten and a half million inhabitants of present-day Hungary, about three million people in the neighbouring countries, and perhaps as many as an additional two million around the world. These figures make Hungarian, which is related to Finnish, Estonian, and Lappish, but virtually no other language in Europe, by far the largest minority language in the great Indo-European language territory.

Despite the isolation that might have been imposed by the uniqueness of their language, Hungarians have been engaged with, and participants in, greater European affairs since their arrival in the Carpathian basin more than a thousand years ago. Hungarians have made significant contributions in the fields of arts, science, and mathematics, winning Nobel prizes in Chemistry (4), Medicine (3), Physics (3), Economics, and Literature. In the music world the names Bartók, Kodály, Lehár, Liszt, Széll, Ormandy, Schiff, and many others are internationally famous. Leo Szilárd, Edward Teller, Paul Erdős, and John von Neumann are famous figures in theoretical physics and mathematics. Joseph Biró developed the ball-point pen and to this day the British call a ball-point pen, a biro. Hungarians have also become famous in sports, particularly soccer, boxing, and fencing, and in the world of cinema. And who has not played with the Rubik's cube?

Hungarian studies at the University of Toronto focus on the language, literature, cinema and culture of Hungary and on the international role of Hungary and Hungarians—particularly on Hungarian immigration to Canada. For many of the courses no prior knowledge of the Hungarian language is necessary, making them easily accessible to students in other programs.

Program Coordinator:
Professor Robert Austin, robert.austin@utoronto.ca, 416-946-8942

Hungarian Programs

Hungarian Studies Major (Arts Program) - ASMAJ1124

Enrolment Requirements:

Enrolment in the Hungarian Studies Major will be administratively suspended as of 7 July 2023 and students will no longer be able to enrol in the program. Students presently enrolled in the Major will be able to complete the program requirements as described below. Students who are not enrolled in this Major but are interested in studies in the Hungarian language, film, history and politics are strongly recommended to consult the European Affairs section of the Academic Calendar as well as the Centre for European and Eurasian Studies (CEES) for advising.

Completion Requirements:

(6.0 credits, including 2.0 credits in Hungarian language study)

First Year:
HUN100Y1

Higher Years:
1. HUN200Y1, HUN310Y1, HUN320Y1
2. 2.0 credits from: EUR200Y1, HIS241H1, HIS242H1, HIS251Y1, HIS389H1 (Hungarian History), HIS453H1, HUN355H1, HUN345H1, HUN355H1, HUN356H1, HUN440Y1, HUN450H1, HUN455H1, INI381H1

Hungarian Studies Minor (Arts Program) - ASMIN1124

Enrolment Requirements:

Enrolment in the Hungarian Studies Minor will be administratively suspended as of 7 July 2023 and students will no longer be able to enrol in the program. Students presently enrolled in the Minor will be able to complete the program requirements as described below. Students who are not enrolled in this Minor but are interested in studies in the Hungarian language, film, history and politics are strongly recommended to consult the European Affairs section of the Academic Calendar as well as the Centre for European and Eurasian Studies (CEES) for advising.

Completion Requirements:

(4.0 credits, including at least 1.0 credit at the 300+ level)

4.0 credits from: [HUN100Y1](#), [HUN200Y1](#), [HUN310Y1](#), [HUN320Y1](#), [HUN335H1](#), [HUN345H1](#), [HUN351H1](#), [HUN440Y1](#), [HUN450H1](#), [HUN455H1](#); [HIS241H1](#), [HIS251Y1](#), [HIS389H1](#) (Hungarian History), [HIS453H1](#); [INI381H1](#)

Faculty of Arts & Science Language Citation

The Hungarian program participates in the Faculty of Arts and Science's Language Citation initiative. Students may achieve this Citation in Hungarian.

Language study is a demanding and intellectually rewarding educational experience. Our students learn to communicate both orally and in writing in other languages and are thus able to experience other parts of the world in more intimate ways. Their access to other cultures opens doors for further study and employment. Students in our department also have the opportunity to read a vast array of world-renowned authors in the original languages, as well as works—normally not available in English—in other areas of study, for example, cinema studies, drama,

folklore, history, intellectual history, philosophy, mathematics, and political science.

The Language Citation recognizes a significant level of achievement in language study. For course selection students should consult the Undergraduate Coordinator as early as possible since not every language course is offered each year. Students who begin language study at the Intermediate level should consult the Undergraduate Coordinator for approval of advanced literature and culture courses that may satisfy the requirements for the Language Citation.

The Language Citation in Hungarian is available to students who complete [HUN200Y1](#) and [HUN310Y1](#) with a grade of at least B-.

Students should note that, as explained in the [About Programs of Study](#) section of this Calendar, the Language Citation is not equivalent to an academic program and that enrolment in a program is not necessary in order to earn the recognition bestowed by the Citation.

Note

The Department reserves the right to assign students to courses appropriate to their level of competence in Hungarian.

Prerequisite: Permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

Hungarian Courses

HUN100Y1 - Elementary Hungarian

Hours: 120P

This course is aimed at students interested in Hungarian but have no prior knowledge of the language. The course emphasizes essential vocabulary, basic comprehension, speaking, reading and writing skills with a balance between communicative activities and grammar practices. Communicative activities will include group and partner work to encourage interactive learning.

Breadth Requirements: Creative and Cultural Representations (1)

HUN200Y1 - Intermediate Hungarian

Hours: 96P

Review of descriptive grammar; studies in syntax; vocabulary building; intensive oral practice; composition; reading and translation.

HUN310Y1 - Advanced Hungarian

Hours: 48S

This course is intended to build on the skills and knowledge acquired by the students in the previous Hungarian language courses. It will consist of a more advanced study of grammar, more complex vocabulary, higher level of oral skills and longer reading, writing and translation exercises. Communicative activities will include group and partner work to encourage interactive learning.

Breadth Requirements: Creative and Cultural Representations (1)

HUN320Y1 - A Survey of Hungarian Literature

Hours: 48S

A chronological study of the development of Hungarian literature since the 12th century; emphasis both on outstanding writers and on significant movements or

themes. Transformations of ideas and changes in language and style. No knowledge of Hungarian required.

Breadth Requirements: Creative and Cultural Representations (1)

HUN335H1 - Urban vs. Rural: Immigration to and Settlement in North America

Hours: 12L/12S

This course will provide an examination of the history of Hungarian Immigration to and settlement in North America. The course will examine the "push" and "pull" factors, the socio-economic factors involved, their patterns of migration and the organizational development of the communities they founded in North America. The course will compare and contrast the reception the immigrants and later refugees received in the United States and Canada and examine how they adapted to their new homelands.

Breadth Requirements: Society and its Institutions (3)

HUN345H1 - The Dynamic of Hungarian Culture, Ethnography, and Folklore

Hours: 12L/12S

Explore the cultural traditions, historical processes, myths, and figures that have shaped and redefined Hungarian civilization and national identity. Theoretical and practical classes on ethno-genesis, anthropology, and folklore. Readings in English (also available in Hungarian).

Breadth Requirements: Creative and Cultural Representations (1)

HUN355H1 - One Hundred Years of Dramatic Change: History of the Past Century and Reflections of Society in Hungarian Culture

Hours: 12L/12S

Explore Hungary's rapidly changing place in Europe. Focus on political, sociological, and historical understandings of nationalism and identity as they manifest themselves in literature, history, and culture. Knowledge of Hungarian not required.

Breadth Requirements: Society and its Institutions (3)

HUN455H1 - Hungary and Europe: Cultural Adaptation in the Late 20th Century

Hours: 12L/12S

Focus on literature, art, mass media, and popular culture in post-1990 Hungary with special emphasis on the past ties to European culture and the impact of European integration. Readings in English (also available in Hungarian).

Breadth Requirements: Creative and Cultural Representations (1)

HUN497Y1 - Independent Study (Hungarian)

Translation course concentrating on Hungarian prose translation. Not eligible for CR/NCR option.

Prerequisite: Permission of Department

HUN498H1 - Independent Study (Hungarian)

Translation course concentrating on Hungarian prose translation. Not eligible for CR/NCR option.

Prerequisite: Permission of Department

Immunology

Faculty List

Professors Emeriti

B.H. Barber, MSc, PhD
 D.E. Isenman, BSc, PhD
 M.H. Julius, BSc, PhD
 M. Letarte, BSc, PhD
 G. Levy, BSc, MD, FRCPC
 R.H. Painter, BSc, PhD
 P. Poussier, MD
 M.J. Shulman, BA, PhD
 G. Wu, MSc, PhD

Professor and Chair of the Department

J.C. Zúñiga-Pflücker, BSc, PhD

University Professor

T.W. Mak, PhD, D Sc, FRSC

Professors

M.K. Anderson, BSc, PhD
 N. Berinstein, MD
 D. Brooks, BSc, PhD
 K. Croitoru, MDCM
 M.I. Cybulsky, MD
 J. Danska, AB, PhD
 M. de Perrot, MSc, MD
 E. Fish, MSc, PhD
 S. Girardin, PhD
 C. Guidos, BSc, PhD
 N. Hirano, MD
 R.D. Inman, BA, MD
 N.N. Iscove, PhD, MD
 M. Jeschke, MD, PhD, FACS, FRCSC
 R. Kaul, MD, PhD
 A. Martin, MSc, PhD
 T. McGaha, BSc, PhD
 V. Miron, PhD
 P.S. Ohashi, BSc, PhD
 M. Ostrowski, MD, FRCP
 C. Paige, BSc, PhD
 J. Penninger, MD (Adjunct)
 V. Piguet, BM, DRMed, PhD
 D.J. Philpott, BSc, PhD
 L. Radvanyi, PhD
 M.J.H. Ratcliffe, BSc, PhD
 C. Roifman, MD
 R. Rottapel, MD
 K. Siminovitch, MD, FRCPC, ABIM
 D. Wall, MD
 T.H. Watts, BSc, PhD
 J. Wither, MD, PhD
 M. Woo, MD, PhD, FRCPC
 R.S. Yeung, MD, PhD, FRCPC
 L. Zhang, MD, PhD

Associate Professors

S. Dunn, BSc, PhD
 G. Ehrhardt, BSc, PhD
 T. Eiwegger, MD, PhD
 S. Epelman, MD, PhD, FRCPC
 E. Grunebaum, BSc, MD
 J.P. Julien, BSc, PhD
 S. MacParland, MSc, PhD
 T. Mallevaey, BSc, PhD
 T. Martinu, MD
 C.S. Robbins, BSc, PhD
 D. Spaner, MD, PhD
 B. Treanor, BSc, PhD
 F.W. Tsui, MSc, PhD (Adjunct)
 P. Vadas, PhD, MD
 D. Winer, MD

Assistant Professors

M. Buechler, PhD
 M. Butler, BA, MD
 B. Coburn, MD, PhD
 S. Crome, BSc, PhD
 A. Gehring, BA, PhD
 S. Harding, PhD
 J. Jongstra-Bilen, MSc, DEA, PhD
 S. Juvet, MD, PhD
 O. Khan, PhD
 A. Mortha, MSc, PhD
 O. Rojas, PhD
 A. Sacher, MD, MMSc, FRCPC
 S. Saibil, MD, PhD, FRCPC
 L. Serghides, BSc, PhD
 A. Tikhonova, PhD
 H. Tsui, PhD, MD
 C. Wang, PhD

Assistant Professors (Teaching Stream)

S. R. Amith, PhD
 S. Berger, MSc, PhD
 L. Clemenza, BSc, PhD
 N. Lee, BSc, PhD
 J. Singh, BSc, PhD
 T. Yi, PhD

Introduction

Immunology is an integrative branch of the medical sciences that draws upon the more traditional disciplines of Molecular Biology, Microbiology, Pathology, and Biochemistry. In essence, Immunology is the study of the physiological responses that result when foreign (i.e., non-self) materials are introduced into a vertebrate organism such as humans. Traditionally, the discipline has focused on the body's response to infectious micro-organisms, with the purpose of developing effective vaccines. However, the scope of modern Immunology now encompasses all aspects of self vs. non-self recognition phenomena including organ transplantation, tumour immunology and autoimmune diseases. Recent major advances in our understanding of the cellular and

molecular basis of the immune response promise to provide us with a new generation of prophylactic, therapeutic and diagnostic reagents of relevance to human and animal health.

The Department of Immunology, in collaboration with Trinity College, co-ordinates specialist, major, and minor programs in Immunology. The emphasis of the specialist program is to provide students with a sound theoretical understanding of the cellular and molecular basis of non-self recognition, together with sufficient laboratory experience to enable the students to consider embarking on a career in the discipline. The major and minor programs offer students fundamental training in Immunology and gives them the opportunity to combine Immunology with another program in Life Sciences, Basic Sciences, or within the Arts.

Immunologists may have careers in universities and other centres of learning and research, as well as in the biotechnology industries, diagnostic laboratories and various government agencies. Courses in this specialist program are drawn from offerings by the Department, together with courses from other Departments, taught in some cases by members of the Department of Immunology. As enrolment in the specialist and major programs are restricted, please consult specific requirements outlined in the program description section.

Associate Chair, Undergraduate Studies:
Dr. J. Singh

Enquiries:
undergraduate.immunology@utoronto.ca
Department of Immunology, Room 7205, Medical Sciences Building (416-978-6382)

More information is available on our website: <https://www.immunology.utoronto.ca/>

Immunology Programs

Immunology Specialist (Science Program) - ASSPE1002

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade and Variable Minimum Grade Average
Minimum grades combined with a minimum grade average in required courses or their equivalents are needed for entry, and these minimums change each year

depending on available spaces and the number of applicants. The following courses must be completed:

- BIO120H1 and BIO130H1
- CHM135H1 and CHM136H1, or CHM151Y1
- MAT135H1 and MAT136H1, or MAT137Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in each course, or a final grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining the minimum final grades and grade average does not guarantee admission to the program. While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 70s; average = mid 70s. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at admissions.immunology@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the Arts & Science Program Toolkit for more information on program enrolment. Additional information is also available on the Immunology website at www.immunology.utoronto.ca.

Note: The Immunology Specialist cannot be combined with the Biochemistry Major or the Molecular Genetics and Microbiology Major.

Completion Requirements:

(13.5 credits)

First Year:
BIO120H1; BIO130H1; (CHM135H1, CHM136H1)/
CHM151Y1; (MAT135H1, MAT136H1)/ MAT137Y1

First Year or upper years:
(PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)
(Note 1)

Second Year:
1. BCH242Y1; BIO230H1; BIO260H1/ HMB265H1;
IMM250H1; STA288H1
2. One course from the following list: BIO220H1/
TRN225Y1/ TRN236H1/ CHM220H1/ CHM247H1/
CHM249H1

Third Year:

1. BCH377H1; IMM341H1; IMM351H1; MGY311Y1; IMM360H1
2. MGY377H1/ MGY378H1

Fourth Year:

1. IMM435H1
2. 1.0 credit from the following list: IMM428H1/ IMM429H1/ IMM430H1/ IMM431H1/ IMM432H1/ MIJ485H1
3. IMM450Y1 or 1.0 credit at the 400-level in ANA, BCH, IMM, LMP, MGY, CSB.

Notes:

1. (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1) may be taken in the first year or subsequent years and are not required for entrance into the specialist program.
2. IMM435H1 is capped at 40 students. Priority will be given to Immunology Specialist students, followed by Immunology Major students.
3. Students considering graduate school are encouraged to take IMM385Y1.

Immunology Major (Science Program) - ASMAJ1002

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade and Variable Minimum Grade Average

Minimum grades combined with a minimum grade average in required courses or their equivalents are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO120H1 and BIO130H1
- CHM135H1 and CHM136H1, or CHM151Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60% in each course, or a final grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining the minimum final grades and grade average does not guarantee admission to the program. While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 70s; average = mid 70s. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at admissions.immunology@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment. Additional information is also available on the Immunology website at www.immunology.utoronto.ca.

Completion Requirements:

(8.0 credits, including 1.0 credit at the 400-level)

First Year:

BIO120H1; BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1

Second Year:

1. BCH210H1; BIO230H1; IMM250H1; BIO260H1/ HMB265H1
2. 0.5 credit from the following list: BIO220H1/ STA288H1/ TRN225Y1/ TRN236H1/ CHM247H1/ CHM249H1

Third Year:

IMM340H1; IMM350H1; CSB349H1/ BCH311H1; 1.0 credit from the following list: BCH370H1/ MGY377H1/ MGY378H1/ PHL281H1

Fourth Year:

1.0 credit from the following list: IMM428H1/ IMM429H1/ IMM430H1/ IMM431H1/ IMM432H1/ IMM435H1/ MIJ485H1

Notes:

1. Students considering graduate school are encouraged to add the additional non-compulsory IMM450Y1 research course, if space permits.
2. MIJ485H1 requires MGY377H1 & MGY378H1 as pre-requisites.
3. IMM435H1 is capped at 40 students. Priority will be given to Immunology Specialist students, followed by Immunology Major students.

Immunology Minor (Science Program) - ASMIN1002

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

For more information, refer to the Immunology website at:
www.immunology.utoronto.ca.

(4.0 credits)

First Year:
BIO120H1; BIO130H1; (CHM135H1, CHM136H1)/
CHM151Y1

Immunology Courses

IMM199H1 - Immunology in the News Today

Hours: 24S

Why do we get sick? How do vaccines work? Does our diet influence our immunity? This course is intended to inspire curiosity about questions generated by immunology concepts that are prevalent in the news today. Different topics will be explored each week including immunity worldwide, human vaccinations and the mucosal immune system. Topics will be placed in context through real-life case studies, immunology virtual laboratory simulation, interactions with faculty members and extensive coverage of the basic science underlying each topic. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

IMM221H1 - Origins of Immunology

Hours: 24L/12T

This course will examine the milestones in the field of immunology from ancient to current times, with specific emphasis on 1880 to 1980. It will observe how the concept of immunity has changed over time and examine the major events and discoveries that shaped how immunology is viewed today. Pioneers, such as Edward Jenner, Louis Pasteur, Robert Koch, Paul Ehrlich and Brigitte Askonas, and their contributions to the field will be discussed in both historical and scientific context as well as their impact on society. Assignments are staggered for students to build upon instructor's feedback.

Recommended Preparation: BIO120H1, BIO130H1
Breadth Requirements: Society and its Institutions (3)

Second Year:
BIO230H1; IMM250H1

Third Year:
IMM340H1; IMM350H1

IMM250H1 - The Immune System and Infectious Disease

Hours: 24L

Students will be introduced to the basic concepts of immunity to infectious disease and how breakdown of the immune response can lead to auto-immunity. We will trace the history of current ideas in immunology and the immune response by examining how bacteria and viruses cause disease and the initial discoveries that led to such developments as vaccination. Current topical and newsworthy infectious diseases (HIV, tuberculosis, SARS, avian flu) will be used as examples of how the immune system copes with microbial infections.

Recommended Preparation: BIO120H1, BIO130H1
Breadth Requirements: Living Things and Their Environment (4)

IMM299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

IMM340H1 - Fundamental Immunology

Hours: 24L/12T

This course introduces the basic principles and key players of the immune system: differences and interplay between innate and adaptive immunity, how immune cells develop and function, how immune cells recognize threats and danger and mount an appropriate and measured response.

Prerequisite: BIO230H1
Exclusion: IMM341H1

Recommended Preparation: IMM250H1

Breadth Requirements: Living Things and Their Environment (4)

IMM341H1 - Fundamental Immunology (Advanced)

Hours: 24L/12T

This course introduces the fundamental principles and key players of the immune system: differences and interplay between innate and adaptive immunity, how immune cells develop and function, how immune cells recognize threats and danger and mount an appropriate and measured response. Intended for students specializing in Immunology and related programs.

Prerequisite: BIO230H1

Exclusion: IMM340H1

Recommended Preparation: IMM250H1

Breadth Requirements: Living Things and Their Environment (4)

IMM350H1 - The Immune System in Action

Hours: 24L/12T

This course illustrates how different elements of the immune system come together to mount efficient and measured responses. Topics include response to infectious microorganisms, allergy and autoimmunity, immune responses against cancer, and transplantation immunology.

Prerequisite: IMM340H1/ IMM341H1

Exclusion: IMM351H1

Breadth Requirements: Living Things and Their Environment (4)

IMM351H1 - The Immune System in Action (Advanced)

Hours: 24L/12T

This course illustrates how different elements of the immune system come together to mount efficient and measured responses. Topics include response to infectious microorganisms, allergy and autoimmunity, immune responses against cancer, and transplantation immunology. Intended for students specializing in Immunology and related programs.

Prerequisite: IMM341H1/ IMM340H1

Exclusion: IMM350H1

Breadth Requirements: Living Things and Their Environment (4)

IMM360H1 - Scientific Methods and Research in Immunology

Hours: 24L/24T

This course will provide students with an opportunity to advance their understanding of research in Immunology in accordance with scientific methodology. Students will critically appraise scientific articles, design and analyze scientific experiments, and develop the core skills of data and statistical literacy. This course is well suited for anyone interested in discovering knowledge in Immunology, providing students with a methodology for the achievement of scientific research activities.

Prerequisite: IMM250H1, BCH210H1/ BCH242Y1, BIO230H1/ BIO255H1, BIO260H1/ HMB265H1, STA288H1/ STA220H1

Breadth Requirements: Living Things and Their Environment (4)

IMM385Y1 - Special Research Project in Immunology

Hours: 180P

This course provides an opportunity for students to conduct a research project under the supervision of a member of the Faculty. Students are expected to devote a minimum of seven hours per week to the course from the week the fall term lectures begin to the last week of the spring term. Research projects will involve experimental design and work, data analyses, literature reading etc.

Prerequisite: IMM250H1

Corequisite: IMM340H1/ IMM341H1

Breadth Requirements: Living Things and Their Environment (4)

IMM428H1 - Molecular Immunology

Hours: 24L

This course will focus on the molecular and cellular biology of immune recognition. The course will emphasize historical and recent experimental evidence leading to our current understanding of immune recognition. Subtopics are subject to change and have recently included mechanisms of diversification of immunoglobulin receptors, T cell –MHC interactions, T cell activation and

signaling mechanisms; receptors of the innate immune system, immune recognition by natural killer cells.

Prerequisite: [BCH210H1](#)/ [BCH242Y1](#), [BCH311H1](#)/ [CSB349H1](#)/ [MGY311Y1](#)/ [PSL350H1](#), [IMM350H1](#)/ [IMM351H1](#)

Breadth Requirements: Living Things and Their Environment (4)

IMM429H1 - Developmental Immunology

Hours: 24L

Hematopoiesis, myelopoiesis, lymphopoiesis, a study of the development of cells involved in the immune system including their ontogeny, physical, molecular, and biochemical characteristics, regulation of differentiation and maturation, positive and negative selection of lymphocytes.

Prerequisite: [IMM350H1](#)/ [IMM351H1](#)

Breadth Requirements: Living Things and Their Environment (4)

IMM430H1 - Clinical Immunology

Hours: 24L/24T

This course will address the underlying pathogenesis as well as highlight the challenges of treating immune-related conditions such as autoimmunity, cancer, HIV, and transplantation and graft rejection. Half of the lectures will address the genetics and cellular pathogenesis of autoimmune diseases such as multiple sclerosis, type I diabetes and lupus. Other lectures will overview a number of immunological challenges faced in the clinic, such as preventing graft rejection after transplantation or boosting the immune system to fight cancer and HIV.

Prerequisite: [IMM350H1](#)/ [IMM351H1](#)

Breadth Requirements: Living Things and Their Environment (4)

IMM431H1 - Immunotherapy

Hours: 24L/12T

Therapies that enhance, or suppress, the body's immune response have proven remarkably efficient for the treatment of human diseases such as cancer, autoimmunity and chronic inflammation. Some of these therapies, such as the so-called checkpoint inhibitors and CAR-T cell therapies have recently leaped from bench to bedside. This course will cover the fundamental immune principles at play, how they were discovered, as well as

the existing and future immune therapies to treat these diseases.

Prerequisite: [IMM350H1](#)/ [IMM351H1](#)

Recommended Preparation: [IMM428H1](#)

Breadth Requirements: Living Things and Their Environment (4)

IMM432H1 - Case Studies in Autoimmune Diseases

Hours: 36S

Understanding autoimmune diseases and identifying molecular targets that either slow or stop disease progression is critical for the development of novel and effective therapies that improve patient quality of life. This course will use case-based learning and an interactive seminar format to provide an advanced overview of autoimmune diseases and their treatments, and will include the in-depth study of selected autoimmune diseases highlighting the patient's perspective.

Prerequisite: [IMM340H1](#)/ [IMM341H1](#), [IMM350H1](#)/ [IMM351H1](#)

Recommended Preparation: [IMM360H1](#)

Breadth Requirements: Living Things and Their Environment (4)

IMM433H1 - Neuroimmunology

Hours: 24L

This course will provide students with an opportunity to advance their understanding of the emerging interdisciplinary research in Neuroimmunology. Topics covered include neural regulation of immune cells and lymphoid organs, and the reciprocal immune-mediated regulation of the central and peripheral nervous system. An in-depth analysis of microglial cells, meningeal immunity, as well as peripheral immunity will be discussed in the context of neurodevelopmental and neurodegenerative diseases.

Prerequisite: [IMM340H1](#)/ [IMM341H1](#), [IMM350H1](#)/ [IMM351H1](#)

Breadth Requirements: Living Things and Their Environment (4)

IMM435H1 - Practical Immunology

Hours: 72P

Application of basic principles acquired from [IMM350H1](#)/ [IMM351H1](#); immunological procedures performed in

research and diagnostic laboratories using molecular and cellular approaches; instruction through lectures, video tapes, and practical exercises in the laboratory. (Lab Materials Fee: \$50)

Prerequisite: BCH210H1/ BCH242Y1, IMM350H1/ IMM351H1

Breadth Requirements: Living Things and Their Environment (4)

IMM450Y1 - Research Project in Immunology

Hours: 154P

An opportunity for specialized research in Immunology under the supervision of a member of the Faculty. There are no pre- or co-requisites, although preference is given to Immunology Specialist and Major students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

MIJ485H1 - Vaccines and Immunity

Hours: 36L

Analysis of the strategies used by pathogenic microbes to evade specific and innate immune responses, and the strategies used to combat infectious disease using vaccines, with an emphasis on molecular and immunological aspects. Special topics include: molecular basis of pathogenicity and immune-evasion strategies; vaccination strategies; challenges to vaccine implementation (given jointly by the Departments of Molecular Genetics and Immunology).

Prerequisite: (IMM340H1/ IMM341H1), (IMM350H1/ IMM351H1), MGY377H1, MGY378H1

Exclusion: MBY480H1, MGY485H1

Breadth Requirements: Living Things and Their Environment (4)

Indigenous Studies

Faculty List

Associate Professors

S. Hill
C. Suzack
D. Turner

Assistant Professors

Tahohtharátie Joe Brant
M. Daigle
R. DeCaire
H. Dorries
B. Wastasecoot
K. White

Introduction

Indigenous Studies is an interdisciplinary undergraduate program dedicated to the study and research of Indigenous peoples in Canada and throughout the world. The program offers courses that engender a rigorous and respectful understanding of Indigenous peoples' languages, knowledges, cultures, histories, politics, arts, intellectual traditions and research methodologies. INS offers Specialist, Major, and Minor Programs within the Faculty of Arts & Science. Students are encouraged to seek counselling and information about this program from indigenous.studies@utoronto.ca or on our website at <https://www.indigenousstudies.utoronto.ca>.

Indigenous Studies Programs

Indigenous Studies Specialist (Arts Program) - ASSPE0115

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10.0 credits, including at least 1.0 credit at the 400-level)

1. [INS201Y1](#)
2. [INS210Y1](#)/ [INS220Y1](#)/ ([INS230H1](#) and [INS231H1](#))
3. [INS300Y1](#)/ [INS301Y1](#) and ([INS303H1](#) and [INS304H1](#))/ ([JPI201H1](#) and [JIG322H1](#))
4. [INS390H1](#) and [INS460H1](#)
5. 4.0 credits from Group A (note: some of these courses

have prerequisites)

6. 1.0 credit from Group A or Group B below (note: some of these courses have prerequisites)

7. For numbers 5 and 6 above, 2.0 credits must be at the 300-level and a 0.5 credit must be at the 400-level.

Group A:

[INS200H1](#), [INS201Y1](#), [JPI201H1](#), [INS205H1](#), [INS210Y1](#), [INS215Y1](#), [INS220Y1](#), [INS230H1](#), [INS231H1](#), [INS240Y1](#), [INS250H1](#), [INS261H1](#), [INS300Y1](#), [INS301Y1](#), [INS302H1](#), [INS303H1](#), [INS304H1](#), [INS310Y1](#), [INS320Y1](#), [INS322H1](#), [JIG322H1](#), [INS340Y1](#), [INS341H1](#), [INS350H1](#), [INS351Y1](#), [INS352H1](#), [INS355H1](#), [INS352H1](#), [INS353H1](#), [INS354H1](#), [INS360Y1](#), [INS371H1](#), [INS372H1](#), [INS380H1](#), [INS390H1](#), [INS398H0](#), [INS398Y0](#), [INS491Y1](#), [INS402H1](#), [INS403H1](#), [INS404H1](#), [INS405H1](#), [INS407H1](#), [JIG440H1](#), [JFP450H1](#), [INS460H1](#), [INS480H1](#), [INS491Y1](#), [INS493H1](#), [INS494Y1](#), [INS495Y1](#), [INS496H1](#), [INS497H1](#), [INS498Y1](#), [ANT210H1](#), [ANT315H1](#), [ANT327H1](#), [ANT384H1](#), [ANT458H1](#), [AST310H1](#), [CRI364H1](#), [CRI422H1](#), [CSE341H1](#), [ENG254H1](#), [ENG355Y1](#), [FAH255H1](#), [FAH452H1](#), [HIS262H1](#), [HIS366H1](#), [HIS369H1](#), [HIS419H1](#), [HIS472H1](#), [LIN458H1](#), [RLG331H1](#), [SDS385H1](#), [WGS395H1](#)

Group B:

[ANT200Y1](#), [ANT204H1](#), [ANT319Y1](#), [ANT311Y1](#), [ANT317H1](#), [ANT319H1](#), [ANT320H1](#), [ANT327H1](#), [ANT348H1](#), [ANT366H1](#), [ANT407H1](#), [ANT410H1](#), [CAR225H1](#), [CAR226H1](#), [CSE240H1](#), [ENG270H1](#), [ENG350H1](#), [ENG371H1](#), [ENG372H1](#), [HIS106Y1](#), [HIS230H1](#), [HIS264H1](#), [HIS318H1](#), [HIS365H1](#), [HIS402H1](#), [JHN323H1](#), [LAS350H1](#), [LIN351H1](#), [RLG307H1](#), [SDS382H1](#)

Note: Effective Fall 2021, courses associated with New College's Caribbean Studies, and Critical Studies in Equity and Solidarity programs will have the new "CAR" and "CSE" designators respectively.

Indigenous Studies Major (Arts Program) - ASMAJ0115

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits, including at least 2.0 credits at the 300+ level)

1. [INS201Y1](#)
2. [INS210Y1](#)/ [INS220Y1](#)/ ([INS230H1](#) and [INS231H1](#))
3. [INS300Y1](#)/ [INS301Y1](#) and ([INS303H1](#) and [INS304H1](#))/ ([JPI201H1](#) and [JIG322H1](#))
4. [INS390H1](#)
5. 2.0 credits from INS, JFP, JIG or JPI (note: some of these courses have prerequisites)
6. One 0.5 credit from Group A or one 0.5 credit from

Group B below (note: some of these courses have prerequisites)

7. Of the courses chosen, at least 2.0 credits must be at the 300+ level, of which a 0.5 credit must be at the 400-level.

Group A:

INS200H1, INS201Y1, JPI201H1, INS205H1, INS210Y1,
INS215Y1, INS220Y1, INS230H1, INS231H1, INS240Y1,
INS250H1, INS261H1, INS300Y1, INS301Y1, INS302H1,
INS303H1, INS304H1, INS310Y1, INS320Y1, INS322H1,
JIG322H1, INS340Y1, INS341H1, INS350H1, INS351Y1,
INS352H1, INS355H1, INS352H1, INS353H1, INS354H1,
INS360Y1, INS371H1, INS372H1, INS380H1, INS390H1,
INS398H0, INS398Y0, INS491Y1, INS402H1, INS403H1,
INS404H1, INS405H1, INS407H1, JIG440H1, JFP450H1,
INS460H1, INS480H1, INS491Y1, INS493H1, INS494Y1,
INS495Y1, INS496H1, INS497H1, INS498Y1, ANT210H1,
ANT315H1, ANT327H1, ANT384H1, ANT458H1,
AST310H1, CRI364H1, CRI422H1, CSE341H1,
ENG254H1, ENG355Y1, FAH255H1, FAH452H1,
HIS262H1, HIS366H1, HIS369H1, HIS419H1, HIS472H1,
LIN458H1, RLG331H1, SDS385H1, WGS395H1

Group B:

ANT200Y1, ANT204H1, ANT319Y1, ANT311Y1,
ANT317H1, ANT319H1, ANT320H1, ANT327H1,
ANT348H1, ANT366H1, ANT407H1, ANT410H1,
CAR225H1, CAR226H1, CSE240H1, ENG270H1,
ENG350H1, ENG371H1, ENG372H1, HIS106Y1,
HIS230H1, HIS264H1, HIS318H1, HIS365H1, HIS402H1,
JHN323H1, LAS350H1, LIN351H1, RLG307H1,
SDS382H1

Note: Effective Fall 2021, courses associated with New College's Caribbean Studies, and Critical Studies in Equity and Solidarity programs will have the new "CAR" and "CSE" designators respectively.

Indigenous Studies Minor (Arts Program) - ASMIN0115

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including at least 1.0 credit at the 300+ level)

1. INS201Y1
2. INS300Y1/ INS301Y1/ (INS303H1 and INS304H1)/ (

JPI201H1 and JIG322H1)

3. 1.0 additional credit from INS, JFP, JIG or JPI (note: some of these courses have prerequisites)

4. 1.0 additional credit from Group A below (note: some of these courses have prerequisites)

Group A:

INS200H1, INS201Y1, JPI201H1, INS205H1, INS210Y1,
INS215Y1, INS220Y1, INS230H1, INS231H1, INS240Y1,
INS250H1, INS261H1, INS300Y1, INS301Y1, INS302H1,
INS303H1, INS304H1, INS310Y1, INS320Y1, INS322H1,
JIG322H1, INS340Y1, INS341H1, INS350H1, INS351Y1,
INS352H1, INS355H1, INS352H1, INS353H1, INS354H1,
INS360Y1, INS371H1, INS372H1, INS380H1, INS390H1,
INS398H0, INS398Y0, INS491Y1, INS402H1, INS403H1,
INS404H1, INS405H1, INS407H1, JIG440H1, JFP450H1,
INS460H1, INS480H1, INS491Y1, INS493H1, INS494Y1,
INS495Y1, INS496H1, INS497H1, INS498Y1, ANT210H1,
ANT315H1, ANT327H1, ANT384H1, ANT458H1,
AST310H1, CRI364H1, CRI422H1, CSE341H1,
ENG254H1, ENG355Y1, FAH255H1, FAH452H1,
HIS262H1, HIS366H1, HIS369H1, HIS419H1, HIS472H1,
LIN458H1, RLG331H1, SDS385H1, WGS395H1

Faculty of Arts & Science Language Citation

Indigenous Studies participates in the Faculty of Arts & Science Language Citation Initiative for Anishinaabemowin. The study of the Anishinaabe language is a demanding and intellectually rewarding educational experience. Successful study of this language demonstrates intelligence, discipline, analytical sophistication, and an excellent memory. The study of any language provides invaluable insights into the varieties of human culture and expression.

In each language the Language Citation recognizes a significant level of achievement in language study with a high level of academic success. The Citation in Anishinaabemowin is available to students who complete INS210Y1 and earn a grade of at least B- in INS310Y1 and INS301Y1/INS351Y1.

Students should note that, as explained in the [About Programs of Study](#) section of this Calendar, the Language Citation is not equivalent to an academic program and that enrolment in a program is not necessary in order to earn the recognition bestowed by the Citation.

Indigenous Studies Courses

INS200H1 - Introduction to Indigenous Truth and Resilience

Hours: 24L/12T

This course is an interdisciplinary introduction to the historical and contemporary experiences of Indigenous peoples in Canada, with an emphasis on local lands and peoples. The course will explore Indigenous resilience, relationships with settlers and settler states, and principles and ethics of Indigenous Knowledge. Tutorials will focus on critical discussion and experiential learning.

Breadth Requirements: Society and its Institutions (3)

INS201Y1 - Introduction to Indigenous Studies: Foundations, History and Politics

Hours: 48L/24T

This course is designed to introduce students to the ideas, methods and themes of the discipline of Indigenous Studies. The development of the field of Indigenous Studies in Canada will form an important focus in the first half. The second part of the course will address "history and politics", including an overview of the historical processes of diplomacy, alliances, and treaty-making.

Exclusion: ABS201Y1

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

JPI201H1 - Indigenous Politics in Canada

Previous Course Number: POL308H1

Hours: 24L/12T

This course explores key issues in Indigenous politics in Canada. Provides students with an overview of historical and contemporary socio-political issues in Indigenous societies and institutions such as Indigenous self-governance, land claims and treaty negotiations.

Prerequisite: 4.0 credits, or 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses, or INS201Y1

Exclusion: POL308H1/ POLC56H3

Recommended Preparation: POL214H1/ POL224H1

Breadth Requirements: Creative and Cultural Representations (1)

INS205H1 - Indigenous Worldviews, Spiritual and Healing Traditions

Hours: 24L

This course will discuss the relationship between spiritual philosophies, beliefs, traditions and practices that contribute to meaning in Indigenous communities. This course will emphasize traditions and teachings and understanding the role of spirituality historically and within contemporary Indigenous societies, including governance, treaties, environment, culture, healing and everyday life.

Prerequisite: INS201Y1 or INS200H1

Exclusion: ABS205H1

Breadth Requirements: Thought, Belief and Behaviour (2)

INS210Y1 - Introduction to Anishinaabemowin

Hours: 72L

An introduction to the Anishinaabe language.

Breadth Requirements: Creative and Cultural Representations (1)

INS215Y1 - Introduction to an Indigenous Language of Canada

Hours: 72L

This course will offer an introduction to one of Canada's Indigenous languages, including its writing system. Speaking skills will be emphasized.

Exclusion: ABS215H1; ABS215Y1

Breadth Requirements: Creative and Cultural Representations (1)

INS220Y1 - Introduction to Kanien'kéha (Mohawk Language)

Hours: 72L

An introduction to Kanien'kéha (Mohawk Language), a member of the Iroquoian language family.

Breadth Requirements: Creative and Cultural Representations (1)

INS230H1 - Introduction to Inuktitut

Hours: 24L

An introduction to one dialect of Inuktitut, the language of the Inuit, including aspects of other dialects and the syllabic writing system.

Exclusion: ABS230H1

Breadth Requirements: Creative and Cultural Representations (1)

INS231H1 - Elementary Inuktitut

Hours: 24L

This course builds on the introduction to Inuktitut from ABS230H. Emphasis will be placed on developing grammatical complexity and vocabulary in students oral skills, as well as dialect and cultural awareness.

Prerequisite: INS230H1

Exclusion: ABS231H1

Breadth Requirements: Creative and Cultural Representations (1)

INS240Y1 - Ecological Interactions: Intro to Indigenous and Western Sciences

Hours: 72L/72P

Introduction to methodologies and applications of Indigenous and Western sciences, with an emphasis on environmental change, animal behaviour, evolution, sustainable practices, and implications of intrinsic ecological connections. Exploratory labs, often outdoors, develop literacy and skills in each paradigm as well as critical thought, creative reflection, and synthesis of knowledge.

Prerequisite: INS201Y1

Exclusion: ABS240Y1

Breadth Requirements: Living Things and Their Environment (4)

INS250H1 - Indigenous Environmental Science and Practice

Hours: 24L

This course is a study of the ecological and scientific teachings of Indigenous peoples. The course provides and overview of Indigenous peoples' relationships with the natural world in historical and contemporary environmental issues and their implications for Indigenous Peoples and others.

Prerequisite: INS201Y1

Exclusion: ABS250H1

Breadth Requirements: Society and its Institutions (3)

INS261H1 - Contemporary Challenges Facing Indigenous Communities

Hours: 24L

This is a survey course focusing on the contemporary challenges faced by Indigenous peoples in Canada. In this course students research specific challenges facing Indigenous communities today. This includes specific challenges that arise out of the broader topic areas of language and culture, land rights, economics, governance, youth, education, health, social services, environment, violence, healing, community development, repatriation of cultural property, and decolonization.

Prerequisite: INS201Y1

Exclusion: ABS261H1

Breadth Requirements: Society and its Institutions (3)

INS300Y1 - Worldviews, Indigenous Knowledges, and Oral Tradition

Hours: 48L

A study of the languages and culture of Indigenous peoples through exploration of oral histories, from creation stories until present times, including the role of oral history and methods for studying oral history through accounts told by elders.

Prerequisite: 5.0 credits including INS201Y1, plus 1.0 additional INS credit

Exclusion: ABS300Y1

Breadth Requirements: Creative and Cultural Representations (1)

INS301Y1 - Indigenous Languages and Cultures

Hours: 48L

Examination of the historical interplay of Indigenous languages and cultures in Canada. Particular focus is on

the languages and cultures of Indigenous peoples of the Great Lakes.

Prerequisite: 5.0 credits including [INS201Y1](#), plus 1.0 additional INS credit

Exclusion: [ABS301Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

INS302H1 - Indigenous Representation in the Mass Media and Society

Hours: 24L

A survey of historical and contemporary representations of Indigenous people in the mass media. Introduction to basic techniques for evaluating, analyzing, and understanding the construction of Indigeneity as it is communicated through film, television, and other media. Examination of racial stereotypes and the role of mass communication in perpetuating and challenging stereotypes, cultural appropriation, Indigenous media production, impact of media portrayal of Indigenous peoples.

Prerequisite: 8.0 credits including [INS201Y1](#), plus 1.0 additional INS credit

Exclusion: [ABS302H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

INS303H1 - Indigenous Language and Indigenous Thought

Hours: 24S

Examination of original Indigenous values and philosophies as embodied in Indigenous languages through various media forms.

Prerequisite: 5.0 credits including [INS201Y1](#), plus 1.0 additional INS credit

Breadth Requirements: Creative and Cultural Representations (1)

INS304H1 - Exploring Indigenous Thought Through Language Texts

Hours: 24L

Examination of original Indigenous values and philosophies as embodied in written Indigenous language texts.

Prerequisite: 5.0 credits including [INS201Y1](#), plus 1.0 additional INS credit

Breadth Requirements: Creative and Cultural Representations (1)

INS310Y1 - Anishinaabemowin II

Hours: 72L

Further study of the Anishinaabe language with emphasis on speaking and writing.

Prerequisite: [INS210Y1](#)

Exclusion: [ABS310Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

INS320Y1 - Kanien'kéha II

Previous Course Number: INS323Y1

Hours: 72L

Further study of Kanien'kéha (Mohawk Language), a member of the Iroquoian language family.

Prerequisite: [INS220Y1](#)

Exclusion: [INS323Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

INS322H1 - Indigenous Narratives of Empowerment

Hours: 24L

This course explores Indigenous decolonization and empowerment by analysing comparatively theoretical and literary debates that focus on issues of sovereignty, gender, grass-roots activism, and anti-racism. It analyses several emerging paradigm approaches to this set of debates including intersectional critical-race theory, Indigenous feminisms, and decolonization practices in theoretical and literary texts.

Prerequisite: 8.0 credits including [INS201Y1](#), plus 1.0 additional INS credit

Exclusion: [ABS322H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

JIG322H1 - Indigenous Worlds, Worldviews and the Environment

Hours: 24L

Explores the diverse ways of understanding and responding to the world that emerge from indigenous cultures around the world. Examines how indigenous ways of being and relating to their natural environment can help us understand and address the current environmental crisis. Using examples of indigenous activism from Canada and around the world, examines how colonial histories shape dispossession and marginalization and inform visions for the future. Topics include traditional ecological knowledge, place-based social movements, environmental concerns of indigenous peoples, bio-cultural restoration and decolonization of nature-human relations.

Prerequisite: 8.0 credits including one of [INS200H1](#), [INS201Y1](#), [INS250H1](#), [GGR107H1](#), [GGR124H1](#), [GGR240H1](#), [GGR246H1](#), [GGR254H1](#)

Exclusion: [JAG321H1](#), [GGR321H1](#)

Breadth Requirements: Society and its Institutions (3)

INS331H1 - Indigenous Music: Technical and Theoretical Aspects

Contemporary and historical musical theory of sacred spiritual ceremonial music and social-public performance practices of Indigenous people of North America. This course will have a participatory emphasis on the music of the Haudenosaunee (Longhouse People) of the Great Lakes.

Prerequisite: 8.0 credits including [INS201Y1](#), plus 1.0 additional INS credit

Exclusion: [ABS331H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

INS340Y1 - Indigenous Health Science

Hours: 48L/48P

This course is themed in six-week quarters addressing four aspects of Western Science (basic, applied, clinical and population health). Within each quarter, the Western Science theme is examined holistically using Indigenous Science and the four aspects of the Medicine Wheel (physical, mental, emotional, spiritual).

Prerequisite: 8.0 credits including [INS201Y1](#), plus 1.0 additional INS credit

Exclusion: [ABS340Y1](#)

Breadth Requirements: Living Things and Their Environment (4)

INS341H1 - North American Indigenous Theatre

Hours: 24L

An introduction to the evolution of Indigenous theatre in North America, examining traditional oratory, ceremony, community responsibility, and social construct and their impact on current Indigenous theatre.

Prerequisite: 8.0 credits including [INS201Y1](#), plus 1.0 additional INS credit

Exclusion: [ABS341H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

INS350H1 - Indigenous Health Systems

Hours: 24L

An overview of Indigenous health systems, internationally, nationally, provincially and locally, with a focus on Ontario. Discussion of health models and strategies, policy, legislation, jurisdictional issues, Indigenous health initiatives.

Prerequisite: 8.0 credits including [INS201Y1](#) or [INS200H1](#)

Exclusion: [ABS350H1](#)

Breadth Requirements: Society and its Institutions (3)

INS352H1 - Indigenous Leadership, Policy and Practices in Canada

Hours: 24L

A historical and contemporary overview of leadership and politics in First Nation, Inuit and Metis communities in Canada. This course will focus on pre-contact governance structures, contemporary effects of colonization, and processes and strategies for decolonization. Various policy initiatives from Indigenous organizations will be examined.

Prerequisite: 5.0 credits including [INS201Y1](#), plus 1.0 additional INS credit

Exclusion: [ABS352H1](#)

Breadth Requirements: Society and its Institutions (3)

INS353H1 - First Nations Politics in Canada

Hours: 24L

This course examines recent trends in First Nations politics and their effects on the social, economic and political lives of First Nations Peoples. It provides students with an in-depth understanding of the socio-political and cultural context for First Nations societies in contemporary settings. It explores the legacies of the *Indian Act*, the tabling of the 1969 White Paper and responses to it, the emergence of current Indigenous political movements, Constitutional issues, and First Nations citizenship.

Prerequisite: 5.0 credits including [INS201Y1](#), plus 1.0 additional INS credit

Exclusion: [ABS353H1](#)

Breadth Requirements: Society and its Institutions (3)

INS354H1 - Indigenous Governance and Self-Determination

Hours: 24L

This course examines the theory and practice of Indigenous governance and self-determination in Canada and abroad. It studies forms of Indigenous governance and self-determination past, present and future, with a special section on Indigenous self-government agreements in Canada.

Prerequisite: [INS353H1](#) or equivalent or permission of instructor

Exclusion: [ABS354H1](#)

Breadth Requirements: Society and its Institutions (3)

INS355H1 - Current Issues in Indigenous Health

Hours: 24L

This course will examine current views about Indigenous peoples' health. The course will focus on Indigenous peoples' perceptions of health and contemporary health systems, including policy, politics and practices.

Prerequisite: 8.0 credits including [INS201Y1](#), plus 1.0 additional INS credit

Breadth Requirements: Society and its Institutions (3)

INS360Y1 - Politics and Process of Reconciliation in Canada

This course uses relationship-building methodologies to develop skills to examine and explore the concept and processes, practice and promises of reconciliation. Through class discussion/seminars, guest speakers, and comparative readings in: Canadian and Indigenous colonial history; the findings of the Canadian Truth and Reconciliation Commission; Canadian Human Rights Tribunal Decisions; and Indigenous solidarity movements in Canada. Students will examine reconciliation and determine whether it is a different process than 'decolonization'.

Prerequisite: [INS201Y1](#), or permission of instructor

Exclusion: [ABS360Y1](#)

Breadth Requirements: Society and its Institutions (3)

INS371H1 - Topics in Indigenous Literatures

Hours: 24S

This seminar provides an in-depth examination of Indigenous literatures in a comparative context. Content in any given year depends on the instructor. See Indigenous Studies website for more details.

Prerequisite: 8.0 credits including [INS201Y1](#)

Exclusion: [ABS371H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

INS372H1 - Special Topics in Indigenous Language

Hours: 36S

This seminar provides an in-depth examination of Indigenous language revitalization efforts in Canada and internationally. Content in any given year depends on the instructor. See Indigenous Studies website for more information.

Prerequisite: 8.0 credits including [INS201Y1](#), and [INS210Y1](#)/[INS220Y1](#)/([INS230H1](#) and [INS231H1](#))

Exclusion: [ABS372H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

INS380H1 - Special Topics in Indigenous Studies

Hours: 24L

This seminar provides an in-depth examination of trends and topics within Indigenous Studies. Content in any given year depends on the instructor. See Indigenous Studies website for more detail.

Prerequisite: 5.0 credits including INS201Y1, plus 1.0 additional INS credit

INS390H1 - Research and Ethics in Indigenous Studies

Hours: 24S

This course examines research approaches, strategies, methods and techniques used in Indigenous studies. It explores a range of topical issues including research ethics and protocols, intellectual property rights, research agreements and community-based research. This course includes the study of quantitative, qualitative and Indigenous methodologies. Critically examines research theories, methodologies and practices used by academic disciplines to study Indigenous peoples. Decolonized research methodologies will form a focus of this course.

Prerequisite: 8.0 credits including INS201Y1, and at least 1.0 additional INS credit

Exclusion: ABS390H1

Breadth Requirements: Society and its Institutions (3)

INS398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

Prerequisite: 8.0 credits including INS201Y1

Exclusion: ABS398H0

INS398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

Prerequisite: 8.0 credits including INS201Y1

Exclusion: ABS399Y0

INS402H1 - Traditional Indigenous Ecological Knowledge

Hours: 36L

An overview of the relationships between Indigenous peoples and their environments, including an exploration of cultural, historical, and contemporary aspects of Indigenous environmental philosophies; the nature, control and transmission of Traditional Ecological Knowledge (TEK), and historical uses of TEK in managing the environment.

Prerequisite: 10.0 credits, INS201Y1, plus 2.0 additional INS credits

Exclusion: ABS402H1

Breadth Requirements: Thought, Belief and Behaviour (2)

INS403H1 - Indigenous Peoples and the Urban Context

Hours: 24S

Critically examines Indigenous peoples' experiences, encounters and interactions in urban areas in Canada. This course explores the historical and contemporary conditions of Indigenous peoples, including urban governance and the development of Indigenous organizations. This course will focus on youth perspectives and how traditions, cultures and knowledges are expressed in urban settings.

Prerequisite: 10.0 credits, INS201Y1, plus 2.0 additional INS credits

Exclusion: ABS403H1

Breadth Requirements: Society and its Institutions (3)

INS405H1 - Indigenous Thought & Expression: Creative Non-fiction

Hours: 24S

An investigation of (Anishnaabe, Iroquoian, Athapaskan, Salish), examined through the study of research and writing of creative-nonfiction.

Prerequisite: 10.0 credits, INS201Y1, plus 2.0 additional INS credits

Exclusion: ABS405Y1; ABS405H1

Breadth Requirements: Thought, Belief and Behaviour (2)

INS407H1 - Indigenous Environmental Justice

Hours: 36L

In this course, we will examine how Indigenous land and water governance have been impacted by colonial policies and extractive capitalist developments. We will discuss how Indigenous peoples negotiate and resist such impacts while also renewing responsibilities with land, water, and animal and plant relations. The course is primarily focused on the North American context, with many case studies taking place in Canada.

Prerequisite: Completion of 14.0 credits, including INS201Y1, and 2.0 additional INS credits or GGR321H1. Permission of the instructor is required.

Exclusion: ABS407H1

Breadth Requirements: Society and its Institutions (3)

INS410H1 - Anishinaabewin Intellectual Traditions, Narrative and Culture

Previous Course Number: INS404H1

Hours: 24S

An examination of oral narratives with an emphasis on the significance of language. This course will give students an in-depth understanding of Anishinaabewin philosophies, teachings and values.

Prerequisite: 10.0 credits, including INS201Y1 and at least 2.0 additional INS credits

Exclusion: ABS404H1, INS404H1

Breadth Requirements: Creative and Cultural Representations (1)

JIG440H1 - Indigenous Geographies

Previous Course Number: GGR400H1 in 20199

Hours: 36S

This course draws on theoretical texts of Indigeneity, with a primary focus on Indigenous spaces in the Americas. Course participants will examine how core geographic concepts such as place, territory, land, movement and the scale of the body are sites of colonial dispossession and violence, as well as sites for decolonial and liberatory thought and practice. We will primarily engage with Indigenous-led scholarship within Geography and Indigenous Studies, and creative forms of knowledge production generated across Indigenous communities.

Prerequisite: 10.0 credits including one of INS200H1, INS201Y1, INS250H1, GGR107H1, GGR124H1, GGR240H1, GGR246H1, GGR254H1

Exclusion: GGR400H1 (Special Topics in Geography I: Indigenous Geographies), offered in Fall 2019

Breadth Requirements: Society and its Institutions (3)

JFP450H1 - Indigenous Issues in Health and Healing

Hours: 24L

This course consists of an examination of health and healing from a holistic perspective (mental, physical, emotional, spiritual) and how colonialism, culture, and public policy have impacted the health of Indigenous peoples in the present day. This course is built around a case-based project in which students working in interdisciplinary groups take on the role of a traditional Indigenous healer, and then assess their healing strategy from a biomedical perspective.

Breadth Requirements: Society and its Institutions (3)

JIH460H1 - Indigenous Histories of North America

Hours: 24S

This senior seminar takes a regional approach, featuring work written by or in collaboration with Indigenous scholars and Indigenous communities, to draw students into discussion of comparative historiographies, the role of worldview in historical writing and the significant methodological interventions made by Indigenous Studies. Students explore oral history and material culture as sources for writing history and discuss ethical research practices for community-based scholarship. In addition to active participation, each student will write a major paper, approximately 15 pages in length, in the form of a review essay on the historiography of either a region or a topic. This course is a joint graduate/undergraduate seminar.

Prerequisite: INS200H1/ INS201Y1/ INS205H1/ HIS230H1/ HIS366H1/ HIS369H1

Recommended Preparation: INS390H1

Breadth Requirements: Society and its Institutions (3)

INS460H1 - Indigenous Theory, Research and Methods

Hours: 36L

This course explores the basis of Indigenous knowledge and how that translates into research theory and methodology. Students will design a research project, consider Indigenous research governance and conduct an ethics review. This is a service learning course. This

course is only open to students enrolled in a Specialist or Major in Indigenous Studies.

Prerequisite: 10.0 credits, including [INS201Y1](#) and [INS390H1](#), and 1.0 additional INS credit

Exclusion: [ABS460Y1](#); [ABS460H1](#)

Breadth Requirements: Society and its Institutions (3)

INS480H1 - Advanced Special Topics in Indigenous Studies

Hours: 24L

This seminar provides an advanced in-depth examination of trends and topics within Indigenous Studies. Content in any given year depends on the instructor. See Indigenous Studies website for more detail.

Prerequisite: 10.0 credits, including [INS201Y1](#) and at least 2.0 additional INS credits.

Breadth Requirements: Creative and Cultural Representations (1)

INS491Y1 - Topics in International Indigenous Studies

Hours: 48S

This seminar provides an in-depth examination of Indigenous studies in international contexts. Content in any given year depends on the instructors. See Indigenous Studies website for more detail. Not eligible for CR/NCR option.

Prerequisite: [INS201Y1](#) and 2.0 additional INS credits

Exclusion: [ABS491Y1](#)

Recommended Preparation: [INS360Y1](#)

Breadth Requirements: Society and its Institutions (3)

INS492H1 - Topics in International Indigenous Studies

Hours: 24S

This seminar provides an in-depth examination of Indigenous studies in international contexts. Content in any given year depends on the instructors. See Indigenous Studies website for more detail. Not eligible for CR/NCR option.

Prerequisite: [INS201Y1](#) and 2.0 additional INS credits

Recommended Preparation: [INS360Y1](#)

Breadth Requirements: Society and its Institutions (3)

INS493H1 - Independent Experiential Studies

Students design and implement an independent experiential Indigenous studies research project in consultation with an Indigenous organization and a faculty supervisor. Students must be enrolled in a major or specialist program in Indigenous Studies, and require written permission from a faculty supervisor and the Director of Indigenous Studies. Not eligible for CR/NCR option.

Prerequisite: 10.0 credits and [INS390H1](#)

Exclusion: [ABS493H1](#)

INS494Y1 - Independent Experiential Studies

Students design and implement an independent experiential Indigenous studies research project in consultation with an Indigenous organization and a faculty supervisor. Students must be enrolled in a major or specialist program in Indigenous Studies, and requires written permission from a faculty supervisor and the Director of Indigenous Studies. Not eligible for CR/NCR option.

Prerequisite: 10.0 credits and [INS390H1](#)

Exclusion: [ABS494Y1](#)

INS495Y1 - Independent Research

Supervised independent research on a topic agreed on by the student and the supervisor before enrolment in the course. Available only when someone is willing and able to supervise. Not eligible for CR/NCR option.

Prerequisite: [INS201Y1](#) plus 1.0 additional INS credit

Exclusion: [ABS495Y1](#)

INS496H1 - Independent Research

Supervised independent research on a topic agreed on by the student and the supervisor before enrolment in the course. Available only when someone is willing and able to supervise. Not eligible for CR/NCR option.

Prerequisite: [INS201Y1](#) plus 1.0 additional INS credit

Exclusion: [ABS496H1](#)

INS497H1 - Independent Research

Supervised independent research on a topic agreed on by the student and the supervisor before enrolment in the course. Available only when someone is willing and able to supervise. Not eligible for CR/NCR option.

Prerequisite: INS201Y1 plus 1.0 additional INS credit

Exclusion: ABS497H1

INS498Y1 - Independent Research

Supervised independent research on a topic agreed on by the student and the supervisor before enrolment in the course. Available only when someone is willing and able to supervise. Not eligible for CR/NCR option.

Prerequisite: INS201Y1 plus 1.0 additional INS credit

Exclusion: ABS498Y1

Centre for Industrial Relations and Human Resources

Faculty List (Undergraduate)

Professor Emeritus

F. Reid, MSc, PhD

Associate Professor Emerita

L. Riznek, MA, PhD

Professor and Director

R. Gomez, MA, MIR, PhD

Associate Professors

G. Distelhorst, BA, PhD

Assistant Professor and Associate Director (Undergraduate)

† A. Eads, BA, PhD

Assistant Professors

S. Campero, MS, MBA, PhD

† A. González Jiménez, PhD

T. Kim, MA, PhD

J. Myers, BSc, MSc, PhD

† P. Scanlan, BA, PhD

Assistant Professor, Teaching Stream

H. Wang, BSc, MSc, PhD

† Cross-appointed

Introduction

Since 1965, the Centre for Industrial Relations and Human Resources (CIRHR) has brought together professors from many different disciplines to teach and conduct research on all aspects of work, the workplace, labour markets, and labour relations. The CIRHR's graduate programs rank among the best in North America and its faculty reflects the depth, breadth, and diversity of our university.

The overarching goal of the undergraduate program in Industrial Relations and Human Resources (IRHR) is to offer an interdisciplinary learning opportunity in which to study the 'world of work and employment' in a Canadian and global context from the perspectives of economics, history, law, human resource management, political science, psychology, and sociology. The program

provides students with a theoretical background and knowledge of current developments in the field that will serve as a basis for careers areas such as a Human Resources Generalist, Recruitment Specialist, HR Consultant, Employment Equity Officer, Training and Development Consultant, Corporate Trainer, Policy Advisor in the Ministry of Labour, Union Representative and Labour Relations Specialist. The undergraduate program in IRHR is also a perfect platform from which to enter post-graduate programs in Industrial Relations and Human Resources, Law with a specialization in labour and employment, as well as policy and labour studies programs.

The Work and Organization majors (IRW) adopt an interdisciplinary approach to understanding the changing nature of work as well as the operation of different types of organizations. Work and Organizations will provide the skills necessary to undertake the development and implementation of solutions to contemporary societal challenges through coordination of economic and social action in organizations and communities. IRW will meet the increasing demand among A&S students for access to courses on work and organizations that provide foundational knowledge in these areas while complementing and enriching their other chosen programs. Students will be able to navigate an evolving labour market upon graduation.

Students are encouraged to use the resources available in both the [CIRHR Library](#) and [Career Centre](#) in order to investigate current labour market trends and career options in Industrial Relations and Human Resources. In Ontario, the [Human Resources Professionals Association](#) (HRPA) regulates the HR profession and issues the Certified Human Resources Professional (CHRP) designation, the national standard for excellence in human resources management. IRHR students are also encouraged to explore the services offered by HRPA. The IRHR Program Office is located in Woodsworth College and students continue to benefit from the rich academic support services and facilities available at the College.

Program Office

119 St. George Street - Room 236 | Toronto ON M5S 1A9
416.978.5783

IRHR@utoronto.ca

<https://www.cirhr.utoronto.ca/>

Regarding Program Enrolment

Admission to major and specialist programs will be determined by grades achieved in specific courses. These are limited enrolment programs that can only accommodate a limited number of students. Achieving the grade requirements does not necessarily guarantee admission to the program in any given year. Requests for admission will be considered in the first program request

period only. For detailed program application instructions, please consult the [Arts & Science Program Toolkit](#). Do not change your program after Year 3 if you are required to complete your degree in four years as prerequisites and program requirements will not be waived. Due to the limited enrolment nature of this program students are strongly advised to enrol in backup programs.

Arts & Science Internship Program (ASIP)

The new [Arts & Science Internship Program \(ASIP\)](#) stream is available to students who are entering Year 2 or Year 3 of study and are enrolled in the Industrial Relations & Human Resources Specialist or Major.

- Enrolment is limited and requires a supplemental application. Students enrolled in the ASIP stream will be required to complete mandatory Professional Development programming plus a minimum of 12 and a maximum of 20 months (Year-2 entry) or a minimum of 12 and a maximum of 16 months (Year-3 entry) of paid, full-time work experience. The time to degree completion for students enrolled in ASIP will normally be 5 years. There is an additional cost to participate in the ASIP stream.
- Students will typically be admitted to the ASIP stream for the Fall term of Year 2 of study, however, in exceptional circumstances students, including transfer students, who enrolled in an eligible program in the Summer after Year 2 can be admitted to the ASIP stream for the Fall of Year 3. Acceptance into an ASIP stream in Year 3 is dependent on space and requires approval of the student's academic unit and the Faculty of Arts & Science Experiential Learning & Outreach Support (ELOS) Office. Please refer to the ASIP eligibility page for further details.

Further details about ASIP, including eligibility requirements and application procedures, can be found [here](#). Students may also visit the [ASIP webpage](#) or contact the ELOS office at asip@utoronto.ca.

Industrial Relations and Human Resources Programs

Industrial Relations & Human Resources - Specialist Program (Arts Program) - ASSPE1536

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants.

The following two requirements must be completed:

1. 0.5 credit with a minimum grade of 67% from [ECO101H1/ IRW230H1](#)*, or a minimum grade of 80% from [ECO105Y1](#)
2. 1.5 credits from SOC/PSY/IRE/IRW, at any level, of which no more than 0.5 credit can be IRE/IRW, with a combined minimum average grade of 75%

To ensure that students admitted to the program will be successful, students with a final grade/grade average lower than the grades listed above will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program.

Requests for admission will only be considered in the first program request period. Due to the limited enrolment nature of this program students are strongly advised to apply to backup programs.

* [IRW230H1](#) is designed to meet the economics requirement of CIRHR programs. [IRW230H1](#) cannot be used in lieu of an introductory economics course for programs offered by the Economics department. Please consult other academic units well before course registration to ensure you are enrolled in the appropriate economics course.

Notes:

- For the first requirement, only a 0.5 credit can be counted toward the completion of the IRHR specialist.
- Students must meet prerequisites and/or enrolment requirements for ECO, PSY, IRE, IRW courses. Check the Faculty of Arts and Science's [timetable](#) for details.
- Students enrolled in this program cannot be simultaneously enrolled in or complete any other CIRHR programs.

Arts & Science Internship Program

Students in the Industrial Relations & Human Resources - Specialist (Arts Program) - ASSPE1536 program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Enrolment Requirements: Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2. Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Industrial Relations & Human Resources – Specialist in the Summer after Year 2 and have completed 2.0 credits with the IRE course designator before starting their first work term. For more information visit [Arts & Science Internship Program \(ASIP\)](#).

Completion Requirements:

(10.0 credits, including 4.0 credits at the 300+ level, of which 1.0 credit must be a 400-level IRE course)

- Courses with a CR/NCR status may not be used to satisfy program requirements.

First Year:

0.5 credit from [ECO101H1](#)/ [ECO105Y1](#)/ [IRW230H1](#)*

1.5 credits from SOC/PSY/IRE/IRW, at any level, of which no more than 0.5 credit can be IRE/IRW

Higher Years:

1. All of [IRE242H1](#), [IRE244H1](#), [IRE260H1](#), [IRE339H1](#), [IRE430H1](#), [IRE431H1](#) (3.0 credits in total)

2. 0.5 credit from [IRE379H1](#) or [IRW220H1](#)

3. 0.5 credit from [IRE446H1](#)/ [IRE447H1](#)/ [IRE472H1](#)

4. 2.0 credits from Group A

5. 2.0 credits (excluding those already counted) from Group A and/or B

Group A: [IRE342H1](#)/ [IRE346H1](#)/ [IRE347H1](#)/ [IRE348H1](#)/ [IRE367H1](#)/ [IRE378H1](#)

Group B: [GGR221H1](#)/ [IRE332Y0](#)/ [IRE345H1](#)/ [IRE349H1](#)/ [IRE395H1](#)/ [IRE396H1](#)/ [IRE432Y0](#)/ [IRE446H1](#)/ [IRE447H1](#)/ [IRE472H1](#)/ [IRE494H1](#)/ [IRW300H1](#)/ [IRW420H1](#)/ [IRW432Y1](#)/ [JGI216H1](#)/ [JGU216H1](#)/ [SOC207H1](#)/ [SOC366H1](#)/ [SOC367H1](#)/ [SOC370H1](#)/ [WRR300H1](#)

* [IRW230H1](#) is designed to meet the economics requirement of CIRHR programs. [IRW230H1](#) cannot be used in lieu of an introductory economics course for programs offered by the Economics department. For all other programs needing an introductory economics course, please consult with the offering department to ensure you enrol in the appropriate economics course.

Notes:

- Non "IRE" courses: These courses may be available only to students who have completed

specified prerequisites or who are enrolled in a program sponsored by the department offering the course. Check the Faculty of Arts and Science's [timetable](#) for details.

- Students enrolled in this program cannot be simultaneously enrolled in or complete any other CIRHR programs.

Industrial Relations & Human Resources - Major (Arts Program) - ASMAJ1536

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

1. 0.5 credit from [ECO101H1](#)/ [ECO105Y1](#)/ [IRW230H1](#)*
2. 1.5 credits from SOC/PSY/IRE/IRW, at any level, of which no more than 0.5 credit can be IRE/IRW

Admission is competitive and in recent years the combined average in the 2.0 credits has been in the 68% to 70% range. Please note that obtaining this minimum grade average does not guarantee admission to the program.

Requests for admission will only be considered in the first program request period. Due to the limited enrolment nature of this program students are strongly advised to apply to backup programs.

* [IRW230H1](#) is designed to meet the economics requirement of CIRHR programs. [IRW230H1](#) cannot be used in lieu of an introductory economics course for programs offered by the Economics department. For all other programs needing an introductory economics course, please consult with the offering department to ensure you enrol in the appropriate economics course.

Notes:

- For the first requirement, only a 0.5 credit can be counted toward the completion of the IRHR major.
- Students must meet prerequisites and/or enrolment requirements for ECO, PSY, IRE, IRW courses.

- Students enrolled in this program cannot be simultaneously enrolled in any other CIRHR program.

Arts & Science Internship Program

Students in the Industrial Relations & Human Resources - Major (Arts Program) - ASMAJ1536 program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Enrolment Requirements: Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2. Full details about ASIP, including student eligibility, selection, and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Industrial Relations & Human Resources – Major in the Summer after Year 2 and have completed 2.0 credits with the IRE course designator before starting their first work term. For more information visit [Arts & Science Internship Program \(ASIP\)](#).

Completion Requirements:

(7.0 credits, including 2.0 credits at the 300+ level, of which one 0.5 credit must be at the 400-level)

Courses with a [CR/NCR](#) status may not be used to satisfy program requirements.

First Year:

- 0.5 credit from [ECO101H1](#)/ [ECO105Y1](#)/ [IRW230H1](#)*
- 1.5 credits from SOC/PSY/IRE/IRW, at any level, of which no more than 0.5 credit can be IRE/IRW

Higher Years:

- All of [IRE242H1](#), [IRE244H1](#), [IRE260H1](#), ([IRE379H1](#)/ [IRW220H1](#)), [IRE430H1](#), [IRE431H1](#)
- 0.5 credit in 300-level IRE course from Group A
- 1.5 credits (excluding those already counted) from Groups A and/or B

Group A: [IRE339H1](#)/ [IRE342H1](#)/ [IRE346H1](#)/ [IRE347H1](#)/ [IRE348H1](#)/ [IRE367H1](#)/ [IRE378H1](#)

Group B: [GGR221H1](#)/ [IRE332Y0](#)/ [IRE345H1](#)/ [IRE349H1](#)/ [IRE395H1](#)/ [IRE396H1](#)/ [IRE432Y0](#)/ [IRE446H1](#)/ [IRE447H1](#)/ [IRE472H1](#)/ [IRE494H1](#)/ [IRW300H1](#)/ [IRW420H1](#)/ [IRW432Y1](#)/ [JGI216H1](#)/ [JGU216H1](#)/ [SOC207H1](#)/ [SOC366H1](#)/ [SOC367H1](#)/ [SOC370H1](#)/ [WRR300H1](#)

* [IRW230H1](#) is designed to meet the economics requirement of CIRHR programs. [IRW230H1](#) cannot be used in lieu of an introductory economics course for programs offered by the Economics department. For all other programs needing an introductory economics course, please consult with the offering department to ensure you enrol in the appropriate economics course.

Notes:

- Students enrolled in this program cannot be simultaneously enrolled in any other CIRHR program.
- ECO program students may use [ECO339H1](#) in lieu of [IRE339H1](#). Please contact the Program Office to have the course counted towards the IRHR major program requirements.
- Non "IRE" courses: These courses may be available only to students who have completed specified prerequisites or who are enrolled in a program sponsored by the department offering the course. Check the Faculty of Arts and Science's [timetable](#) for details.

Work and Organizations Major: Humanities Contexts (Arts Program) - ASMAJ1532

The Work and Organizations program adopts an interdisciplinary approach to understanding the changing nature of work as well as the operation of different types of organizations. Work and Organizations will provide the skills necessary to undertake the development and implementation of solutions to contemporary societal challenges through coordination of economic and social action in organizations and communities. Students will be able to navigate an evolving labour market upon graduation.

The Major in Work and Organizations has three streams: Humanities Contexts, Social Sciences Contexts, and Sciences Contexts. It is generally intended that students will enrol in the stream that corresponds to the sector of their other program(s) – e.g., a student enrolled, or planning to enrol, in a Political Science program would apply to the Social Sciences Contexts stream of the Work and Organizations Major.

Students may only complete one stream in the Work and Organizations Major, and students enrolled in the Work and Organizations Major cannot be simultaneously enrolled in the Industrial Relations and Human Resources Major or Specialist.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. One of the following courses (0.5 credit) must be completed:

- ENG100H1/ GER100Y1/ GER101H1/ GER150H1/ HIS109Y1/ HPS100H1/ HPS110H1/ HPS120H1/ PHL100Y1/ PHL101Y1/ RLG100Y1/ RLG102H1/ RLG103H1

To ensure that students admitted to the program will be successful, students with a final grade in the completed course lower than 67% will not be considered for admission. Please note that obtaining this minimum grade does not guarantee admission to the program. If more than one course (0.5 credit) has been completed from this list, the minimum grade will be based on the higher course grade. Please note that some of the courses listed are 1.0 credit courses; if one of these courses is completed for enrolment in the program, only 0.5 credit will count toward the completion requirements of the Work and Organizations Major.

If students have not taken a course from this list, they can request approval from the unit to consider other relevant courses for admission.

Note:

- Due to the limited enrolment nature of this program students are strongly advised to apply to backup programs.

Completion Requirements:

(8.0 credits)

Courses with a CR/NCR status may not be used to satisfy program requirements.

First Year:

1. 0.5 credit from the following set of 100-level courses: ENG100H1/ GER100Y1/ GER101H1/ GER150H1/ HIS109Y1/ HPS100H1/ HPS110H1/ HPS120H1/ PHL100Y1/ PHL101Y1/ RLG100Y1/ RLG102H1/ RLG103H1

Note: Some of the above course options are 1.0 credit courses, but only 0.5 credit can be counted toward the completion of this major.

Higher Years:

1. IRW240H1, IRE260H1, PHL295H1, IRW300H1, IRE379H1, IRW410H1, IRW420H1
2. 0.5 credit from: IRW220H1/ ECO220Y1/ EEB225H1/ GGR270H1/ POL222H1/ PSY201H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1
3. 0.5 credit from: IRW230H1/ ECO101H1/ ECO102H1/ ECO105Y1
4. 0.5 credit from: IRE342H1/ MGT201H1
5. 1.0 credit from: IRW432Y1/ IRW446Y1/ IRW452Y1
6. 1.5 credits of electives chosen from the following courses below, of which at least 1.0 credit must be at the 300- or 400-level:

PHL394H1/ PHL395H1/ PHL446H1/ HIS302H1/ HIS310H1/ HIS347H1/ HIS373H1/ HIS396H1/ ENG213H1/ ENG215H1/ ENG254H1/ ENG270H1/ ENG287H1/ ENG355Y1/ ENG357H1/ ENG370Y1/ ENG371H1/ ENG372H1/ DTS417H1/ DTS414H1/ RLG230H1/ RLG236H1/ JAR301H1/ RLG307H1/ RLG308H1/ RLG309H1/ RLG318H1/ RLG337H1/ RLG353H1/ RLG385H1/ RLG387H1/ RLG426H1/ RLG428H1/ GER270H1/ GER272H1/ GER290H1/ GER310H1/ GER370H1/ GER372H1/ HPS200H1/ HPS202H1/ HPS245H1/ HPS316H1/ HPS321H1/ HPS351H1/ JHE353H1/ HPS430H1/ HPS431H1

Note: Non-"IRE" and non-"IRW" courses are offered by other departments. These courses may be available only to students who have completed specified prerequisites or who are enrolled in a program sponsored by the department offering the course. Check the Faculty of Arts & Science's timetable for details to ensure you are able to complete the required electives in the Work & Organizations program.

Work and Organizations Major: Sciences Contexts (Arts Program) - ASMAJ1534

The Work and Organizations program adopts an interdisciplinary approach to understanding the changing nature of work as well as the operation of different types of organizations. Work and Organizations will provide the skills necessary to undertake the development and implementation of solutions to contemporary societal challenges through coordination of economic and social action in organizations and communities. Students will be able to navigate an evolving labour market upon graduation.

The Major in Work and Organizations has three streams: Humanities Contexts, Social Sciences Contexts, and Sciences Contexts. It is generally intended that students will enrol in the stream that corresponds to the sector of their other program(s) – e.g., a student enrolled, or

planning to enrol, in a Political Science program would apply to the Social Sciences Contexts stream of the Work and Organizations Major.

Students may only complete one stream in the Work and Organizations Major, and students enrolled in the Work and Organizations Major cannot be simultaneously enrolled in the Industrial Relations and Human Resources Major or Specialist.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. One of the following courses (0.5 credit) must be completed:

- BIO120H1/ BIO130H1/ CHM135H1/ CHM136H1/ CSC108H1/ CSC148H1/ CSC110Y1/ MAT157Y1/ PHY151H1/ PHY152H1/ PSY100H1/ STA130H1

To ensure that students admitted to the program will be successful, students with a final grade in the completed course lower than 67% will not be considered for admission. Please note that obtaining this minimum grade does not guarantee admission to the program. If more than one course (0.5 credit) has been completed from this list, the minimum grade will be based on the higher course grade. Please note that some of the courses listed are 1.0 credit courses; if one of these courses is completed for enrolment in the program, only 0.5 credit will count toward the completion requirements of the Work and Organizations Major.

If students have not taken a course from this list, they can request approval from the unit to consider other relevant courses for admission.

Completion Requirements:

(8.0 credits)

Courses with a CR/NCR status may not be used to satisfy program requirements.

First Year:

1. 0.5 credit from the following set of 100-level courses: BIO120H1/ BIO130H1/ CHM135H1/ CHM136H1/ CSC108H1/ CSC148H1/ CSC110Y1/ MAT157Y1/ PHY151H1/ PHY152H1/ PSY100H1/ STA130H1

Note: Some of the above course options are 1.0 credit courses, but only 0.5 credit can be counted toward the completion of this major.

Higher Years:

1. IRW240H1, IRE260H1, PHL295H1, IRW300H1, IRE379H1, IRW410H1, IRW420H1
2. 0.5 credit from: IRW220H1/ ECO220Y1/ EEB225H1/ GGR270H1/ POL222H1/ PSY201H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1
3. 0.5 credit from: IRW230H1/ ECO101H1/ ECO102H1/ ECO105Y1
4. 0.5 credit from: IRE342H1/ MGT201H1
5. 1.0 credit from: IRW432Y1/ IRW446Y1/ IRW452Y1
6. 1.5 credits of electives chosen from the following courses below, of which at least 1.0 credit must be at the 300- or 400-level:

EEB208H1/ EEB214H1/ EEB215H1/ EEB255H1/ EEB321H1/ EEB375H1/ EEB428H1/ HMB303H1/ HMB306H1/ PSY220H1/ PSY270H1/ PSY320H1/ PSY321H1/ PSY322H1/ PSY326H1/ PSY328H1/ PSY426H1/ JAR301H1/ RLG318H1/ HPS200H1/ HPS202H1/ HPS245H1/ HPS316H1/ HPS321H1/ HPS351H1/ JHE353H1

Note: Non-"IRE" and non-"IRW" courses are offered by other departments. These courses may be available only to students who have completed specified prerequisites or who are enrolled in a program sponsored by the department offering the course. Check the Faculty of Arts & Science's timetable for details to ensure you are able to complete the required electives in the Work & Organizations program.

Work and Organizations Major: Social Sciences Contexts (Arts Program) - ASMAJ1533

The Work and Organizations program adopts an interdisciplinary approach to understanding the changing nature of work as well as the operation of different types of organizations. Work and Organizations will provide the skills necessary to undertake the development and implementation of solutions to contemporary societal challenges through coordination of economic and social action in organizations and communities. Students will be able to navigate an evolving labour market upon graduation.

The Major in Work and Organizations has three streams: Humanities Contexts, Social Sciences Contexts, and Sciences Contexts. It is generally intended that students will enrol in the stream that corresponds to the sector of

their other program(s) – e.g., a student enrolled, or planning to enrol, in a Political Science program would apply to the Social Sciences Contexts stream of the Work and Organizations Major.

Students may only complete one stream in the Work and Organizations Major, and students enrolled in the Work and Organizations Major cannot be simultaneously enrolled in the Industrial Relations and Human Resources Major or Specialist.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. One of the following courses (0.5 credit) must be completed:

- ECO101H1/ ECO102H1/ ECO105Y1/ GGR112H1/ GGR124H1/ POL101H1/ POL106H1/ POL107H1/ POL109H1/ PSY100H1/ SOC100H1/ SOC150H1

To ensure that students admitted to the program will be successful, students with a final grade in the completed course lower than 67% will not be considered for admission. Please note that obtaining this minimum grade does not guarantee admission to the program. If more than one course (0.5 credit) has been completed from this list, the minimum grade will be based on the higher course grade. Please note that some of the courses listed are 1.0 credit courses; if one of these courses is completed for enrolment in the program, only 0.5 credit will count toward the completion requirements of the Work and Organizations Major.

If students have not taken a course from this list, they can request approval from the unit to consider other relevant courses for admission.

Note:

- Due to the limited enrolment nature of this program students are strongly advised to apply to backup programs.

Completion Requirements:

(8.0 credits)

Courses with a CR/NCR status may not be used to satisfy program requirements.

First Year:

1. 0.5 credit from the following set of 100-level courses: ECO101H1/ ECO102H1/ ECO105Y1/ GGR112H1/ GGR124H1/ POL101H1/ POL106H1/ POL107H1/ POL109H1/ PSY100H1/ SOC100H1/ SOC150H1

Note: Some of the above course options are 1.0 credit courses, but only 0.5 credit can be counted toward the completion of this major.

Higher Years:

1. IRW240H1, IRE260H1, PHL295H1, IRW300H1, IRE379H1, IRW410H1, IRW420H1
2. 0.5 credit from: IRW220H1/ ECO220Y1/ EEB225H1/ GGR270H1/ POL222H1/ PSY201H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1
3. 0.5 credit from: IRW230H1/ ECO101H1/ ECO102H1/ ECO105Y1
4. 0.5 credit from: IRE342H1/ MGT201H1
5. 1.0 credit from: IRW432Y1/ IRW446Y1/ IRW452Y1
6. 1.5 credits of electives chosen from the following courses below, of which at least 1.0 credit must be at the 300- or 400-level and no more than 0.5 credit can be from IRE courses:

GGR221H1/ GGR223H1/ GGR251H1/ GGR252H1/ GGR324H1/ GGR326H1/ GGR328H1/ GGR354H1/ GGR428H1/ GGR429H1/ GGR430H1/ PSY220H1/ PSY320H1/ PSY321H1/ PSY322H1/ PSY326H1/ PSY328H1/ PSY426H1/ POL201H1/ POL214H1/ POL356H1/ POL435H1/ SOC207H1/ SOC306H1/ SOC319H1/ SOC338H1/ SOC408H1/ IRE242H1/ IRE244H1/ IRE346H1/ IRE430H1/ IRE472H1/ RLG230H1/ RLG236H1/ RLG307H1/ RLG308H1/ RLG309H1/ RLG353H1/ RLG385H1/ RLG426H1/ RLG428H1/ HPS200H1/ HPS202H1/ HPS245H1/ HPS351H1/ JHE353H1

Note: Non-"IRE" and non-"IRW" courses are offered by other departments. These courses may be available only to students who have completed specified prerequisites or who are enrolled in a program sponsored by the department offering the course. Check the Faculty of Arts & Science's timetable for details to ensure you are able to complete the required electives in the Work & Organizations program.

Not all courses are offered every year. Please check the timetable for current course offerings and enrolment restrictions/conditions. Students without course prerequisites may be removed at any time they are discovered. Course descriptions, prerequisites, corequisites and exclusions are listed below.

Industrial Relations and Human Resources Courses

IRE199H1 - Why We Work: Understanding Work Through the Prism of Art & Culture

Hours: 24S

Why do we work? What does work mean to the average person? These questions are not as straightforward as they appear. We work for the bulk of our lives and most of our days are spent with coworkers who are neither family nor our closest friends, but we often fail to realize how self-defining work really is. This speaks to work's centrality but also to its invisibility in reflective discourse. However, through "popular" representations of work (e.g., such as in story-telling, cave drawings, hieroglyphs, music, writing, painting, television, film, video games, etc.) we can begin to better understand the meaning of work and how this has changed over time. Readings in anthropology, history, economics, sociology and employment relations plus film and art criticism will help us explore these questions from an interdisciplinary perspective; assignments will encourage students to reflect on their own experience of work. Developing strong analytical and communication skills is an important goal of the course. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

IRW220H1 - Statistics for Work and Organizations

Hours: 24L

This course covers the fundamentals of statistical data analysis including the principles of data visualization, descriptive statistics, sampling distribution, hypothesis testing, and regression analysis using free statistical software (R/R Studio). The emphasis is on fostering a conceptual understanding of different statistical techniques and analysis applicable to the workplace and within organizations.

Prerequisite: Completion of 4.0 credits

Exclusion: ECO220Y1/ EEB225H1/ GGR270H1/ POL222H1/ PSY201H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ MGEB12H3/ PSYB07H3/ STAB22H3/ STAB23H3/ ECO227Y5/ PSY201H5/ STA215H5/ STA218H5/ STA220H5

Breadth Requirements: Society and its Institutions (3)

IRW230H1 - Economics of Work and Organizations

Hours: 24L

The foundations of economic thinking as well as an introduction to economic theories that explain why organizations exist, the central economic theories of work and worker behaviour; the incentives that make workers and firms behave optimally and an introduction to the new behavioural economic theories of work and organizations are all part of this course. Note: Course will not count towards Economics program requirements.

Exclusion: ECO101H1/ ECO102H1/ ECO105Y1/ ECO101H5/ ECO102H5/ MGEA01H3/ MGEA02H3/ MGEA05H3/ MGEA06H3

Breadth Requirements: Society and its Institutions (3)

IRW240H1 - Introduction to Work and Organizations

Hours: 24L

The study of work and the history and development of organizations, their central theories and concepts; the behaviours, outcomes, practices and institutions that emerge from or affect work and organizations; contemporary issues in work and organizations.

Prerequisite: Completion of 4.0 credits

Exclusion: IRE240H1

Breadth Requirements: Society and its Institutions (3)

IRE242H1 - HRM for Industrial Relations and HR Professionals

Hours: 12L/24P

This course explores the relationship between human resource management, employment relations, and industrial relations. Extensive practical course work will expose students to the functions human resource professionals execute to recruit, select, compensate, train, and evaluate the performance of employees. The course prepares students for advanced HR topics in upper level IRE courses.

Note: Course will not count towards Rotman Commerce program requirements.

Prerequisite: 4.0 credits

Exclusion: RSM361H1

Breadth Requirements: Society and its Institutions (3)

IRE244H1 - Labour Relations

Hours: 36L

Introduction to the institutions, issues and legislation affecting the employment relationship in the public and private sectors in Canada, with emphasis on collective bargaining. The economic and political environment, history of the labour movement, union organization, certification, contract negotiation, strikes, dispute resolution, contract administration and grievances.

Prerequisite: 4.0 credits

Breadth Requirements: Society and its Institutions (3)

IRE260H1 - Organizational Behaviour

Hours: 24L

Introduction to the nature of organizations and the behaviour of individuals and groups within organizations, including topics such as culture and diversity, reward systems, motivation, leadership, politics, communication, decision-making, conflict and group processes. Not recommended for students in Commerce programs.

Prerequisite: 4.0 credits

Exclusion: RSM260H1

Breadth Requirements: Society and its Institutions (3)

IRE299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

IRW300H1 - Effective Communication and Strategic Writing in Organizations

Hours: 24L

This course is focused on understanding and crafting strategic, effective, and ethical written and verbal communications in organizations. We will learn scholarly approaches from the social sciences and humanities regarding organizational communications and miscommunications, including those directed internally and externally from complex organizations.

Prerequisite: 4.0 credits

Exclusion: WRR300H1

Breadth Requirements: Society and its Institutions (3)

IRE332Y0 - Topics in Industrial Relations and Human Resources (Summer Abroad Program)

Topics in Industrial Relations and Human Resources offered in an international setting. The content may vary from year to year.
For more information check the [Summer Abroad](#) website.

Breadth Requirements: Society and its Institutions (3)

IRE339H1 - Labour Markets and Public Policy

Hours: 36L

This course is designed to provide students in the IRHR program with knowledge of how the labour market affects the employment relationship. The basic tools of labour economics are developed and applied to various issues of organizational and government policy such as: the incentive effects of compensation arrangements, government income support programs, and minimum wage policy; the determinants of preferences for hours of work including job-sharing, overtime and retirement; the impacts of unions on compensation and productivity; public-sector employment and alternatives to the right to strike; discrimination in employment on the basis of gender and race as well as related government policies such as pay and employment equity.

Note: IRE339H1 will not count towards an ECO program.

Prerequisite: ECO101H1/ ECO105Y1/ IRW230H1

Exclusion: ECO339H1

Breadth Requirements: Society and its Institutions (3)

IRE342H1 - Essentials of Finance and Accounting

Hours: 24L/12T

This course introduces students to accounting and finance procedures and concepts used by organizational leaders and professionals. The course covers both managerial and financial accounting topics with applications to organizational decision-making. Note: Course will not count towards Rotman Commerce program requirements.

Prerequisite: (IRE242H1, IRE379H1/ IRW220H1)/(IRW220H1, IRW230H1)

Breadth Requirements: Society and its Institutions (3)

IRE344H1 - Topics in Industrial Relations and Human Resources

Hours: 36L

Topics vary from year to year, but the objective of the course is to discuss current IRHR issues and their economic, legal, political and social implications.

Prerequisite: IRE244H1, IRE260H1. Additional prerequisites depending on topic.

Breadth Requirements: Society and its Institutions (3)

IRE345H1 - Topics in Industrial Relations and Human Resources

Hours: 36L

Topics vary from year to year, but the objective of the course is to discuss current IRHR issues and their economic, legal, political and social implications.

Prerequisite: IRE244H1, IRE260H1. Additional prerequisites depending on topic.

Breadth Requirements: Society and its Institutions (3)

IRE346H1 - HR Planning & Strategy

Hours: 36L

An understanding is developed of how essential elements of the human resource planning process support organizational goals and strategies. Topics such as environmental influences, job analysis, forecasting human resource needs and ascertaining supply, succession planning, downsizing and restructuring, mergers and acquisitions, outsourcing, and strategic international issues are examined.

Prerequisite: 0.5 credit from: IRE240H1, IRE244H1, IRE260H1, IRW220H1, IRW230H1, IRW240H1

Breadth Requirements: Society and its Institutions (3)

IRE347H1 - Training & Development

Hours: 24L

The role of training and development initiatives in organizations. Students acquire the knowledge and skills to conduct a training needs assessment, identify training objectives, explore strategies to increase the transfer of training, design and deliver a training activity using various training methodologies, and evaluate its effectiveness.

Prerequisite: IRE242H1

Breadth Requirements: Society and its Institutions (3)

IRE348H1 - Recruitment & Selection

Hours: 24L

The principles, legal issues, and emerging trends affecting the recruitment process and selection of staff in organizations. Development of recruitment strategies, assessment of applications for employment, interviewing candidates, and the role of testing and measurement of competencies in making hiring decisions.

Prerequisite: IRE242H1

Breadth Requirements: Society and its Institutions (3)

IRE367H1 - Compensation

Hours: 24L

The theory and process of developing and administering compensation systems. Through the core compensation principles of efficiency, equity, consistency and competitiveness we consider such topics as: job analysis, job evaluation, pay levels and structures, pay for performance, benefits, and compensating special groups of workers.

Prerequisite: IRE242H1

Breadth Requirements: Society and its Institutions (3)

IRE378H1 - Employment Health

Hours: 36L

The influence of legislation, the labour market and collective bargaining on health policies and programs in the workplace. The rights and responsibilities of employers, employees, unions and governments for the regulation and promotion of workplace health and safety; and the implications of evolving demographic, economic, and social factors.

Prerequisite: IRE244H1/ IRE260H1

Breadth Requirements: Society and its Institutions (3)

IRE379H1 - Research and Data Analytics

Hours: 24L/12T

Data science is changing the way organizations make decisions and the way work is done. This course introduces basic data analytics concepts for understanding the measurement of performance, analysis of organizational policies, and effective communication and visualization of data. Students will develop basic data skills in the R statistical computing environment.

Prerequisite: 0.5 credit from: IRE240H1, IRE244H1, IRE260H1, IRW220H1, IRW230H1, IRW240H1

Breadth Requirements: Society and its Institutions (3)

IRE395H1 - Independent Study

Independent study under the direction of a faculty member. Open only when a faculty member is willing and available to supervise. Application form is due one week before the start of term. Consult the program website for additional information. Not eligible for CR/NCR option.

Prerequisite: IRE244H1, IRE260H1 and at least 68% in 0.5 credit in IRE at the 300+ level. Approval of the Program Coordinator.

Breadth Requirements: Society and its Institutions (3)

IRE396H1 - Research Participation

Credit course for supervised participation in a faculty research project. Offered only when a faculty member is willing and available to supervise. Consult the program website for additional information. Not eligible for CR/NCR option.

Prerequisite: IRE244H1, IRE260H1 and an average of at least 70% in 1.0 credit in IRE at the 300+ level. Approval of the Program Coordinator.

Breadth Requirements: Society and its Institutions (3)

IRE399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

IRW410H1 - Organizational Governance and Design

Hours: 24L

Governance and design refers to “who gets to decide what and how” in organizations. This course examines the development of different types of organizations and governance arrangements, and different design archetypes within organizations. Focus is placed on how different governance and design arrangements support different strategic objectives and goals and ways of coordinating work effort.

Prerequisite: IRW240H1 and IRE260H1

Breadth Requirements: Society and its Institutions (3)

IRW420H1 - Management Skills for Project and Strategy Implementation

Hours: 36L

The course focuses on understanding the challenges, constraints, and opportunities associated with formulating and implementing organizational strategy, with a focus on developing practical tools and skills required to effectively “get things done” in organizations. Course begins by giving students a framework to analyze organizations from strategic, political and cultural lenses. Subsequently, the course addresses three main issues central to “getting things done” in organizations: 1. how to gain influence in organizations (topics: decision-making, power, and networks), 2. how to manage others (topics: performance management, motivation, negotiations), and 3. how to drive organization change (topics: organizational culture, organizational change).

Prerequisite: IRW240H1 and IRE260H1

Breadth Requirements: Society and its Institutions (3)

IRE430H1 - Canadian Employment Law & the Non-Union Workplace

Hours: 24L

The course will focus on the law governing employment in a non-unionized workplace. Specifically, it will cover every phase of the employment relationship from hiring to termination and beyond and the rights and obligations of employers and employees as developed by the Courts and under employment-related statutes (namely the Employment Standards Act, 2000 and the Human Rights Code.) The course will also cover provisions from the Occupational Health and Safety Act.

Prerequisite: 0.5 IRE/IRW credit at the 300-level

Corequisite: Students who do not meet the prerequisites may take IRE430H1 concurrently with 0.5 IRE/IRW credit at the 300-level

Breadth Requirements: Society and its Institutions (3)

IRE431H1 - Canadian Labour Law & the Unionized Workplace

Hours: 24L

The course will focus on the laws impacting unionized workplaces. It will cover every phase of the Ontario Labour Relations Act, 1995 (the "LRA") from union organizing, certification, negotiation and bargaining, collective agreement arbitration, retention of bargaining rights and decertification and termination of bargaining rights.

Prerequisite: IRE430H1

Breadth Requirements: Society and its Institutions (3)

IRW432Y1 - Entrepreneurship

Hours: 24L/24P

Students will learn about the theory and practice of entrepreneurship as well as determinants of entrepreneurial success by developing a business or organizational plan to bring their "proposed" product and service ideas to market, to achieve a local community or social development objective, to learn how to secure funding for a new venture creation through individual and/or collective entrepreneurship.

Prerequisite: 14.0 credits including 1.0 credit from IRE260H1, IRW240H1, PHL295H1 and 1.0 credit from IRE342H1, IRE379H1, IRW300H1

Exclusion: RSM493H1

Breadth Requirements: Society and its Institutions (3)

IRE432Y0 - Advanced Topics in Industrial Relations and Human Resources (Abroad)

Advanced topics in Industrial Relations and Human Resources offered in an international setting. The content may vary from year to year. Offered by the Professional & International Programs Office.

Prerequisite: 13.0 credits including IRE244H1, IRE260H1 and 1.0 credit in IRE at the 300+ level

Breadth Requirements: Society and its Institutions (3)

IRE444H1 - Seminar in Industrial Relations and Human Resources

Hours: 24S

An advanced seminar examining contemporary issues in the IRHR field. Topics vary from year to year, but the objective of the course is to discuss current issues and their economic, legal and social implications.

Prerequisite: IRE244H1, IRE260H1 and 1.0 credit in IRE at the 300+ level

Breadth Requirements: Society and its Institutions (3)

IRW446Y1 - Working as an Organizational Consultant

Hours: 24L/24P

In this capstone course, students will learn about the growth and development of consulting and its intellectual foundations. After this background, consulting models and approaches will be explored and applied to real world problems. Students will work in groups on an actual organizational challenge. This challenge will either be internal to an organization or will involve external market research.

Prerequisite: 14.0 credits including 1.0 credit from IRE260H1, IRW240H1, PHL295H1 and 1.0 credit from IRE342H1, IRE379H1, IRW300H1

Exclusion: IRE446H1

Breadth Requirements: Society and its Institutions (3)

IRE446H1 - Working as an Internal Organizational Consultant

Hours: 24S

This course examines the various elements of the consulting process and the interpersonal skills required to build trust, influence others, contract with clients, and establish and maintain strong working relationships. This seminar may include a compulsory learning format component using a service-learning placement with a community-based agency or organization. Consult the current timetable for details.

Prerequisite: 0.5 credit in IRE at the 300+ level

Exclusion: IRW446Y1

Breadth Requirements: Society and its Institutions (3)

IRE447H1 - Contemporary Challenges Facing Today's Organizations

Hours: 24S

An advanced seminar exploring significant developments in organizations, and the challenges and opportunities

facing professionals in the employment relations field. Emphasis is placed on developing problem solving and critical thinking skills and examining theories and concepts of employment relations.

Prerequisite: 0.5 credit in IRE at the 300+ level

Breadth Requirements: Society and its Institutions (3)

IRW452Y1 - Capstone Research Project

Hours: 24L/24P

In this capstone course, students will have the opportunity to design and implement an original research project on work and organizations. Students will receive in-class training and guidance on: 1) developing and refining a research question, 2) identifying and implementing appropriate research methods, 3) locating or collecting relevant data, 4) identifying the significance of their work to various audiences, and 5) effectively writing a research paper. Not eligible for CR/NCR option.

Prerequisite: 14.0 credits including 1.0 credit from IRE260H1, IRW240H1, PHL295H1 and 1.0 credit from IRE342H1, IRE379H1, IRW300H1

Breadth Requirements: Society and its Institutions (3)

IRE472H1 - Negotiations

Hours: 24S

Resolving conflicts constructively is a challenge faced by all organizations and most individuals. This course will cover fundamentals of the negotiation process and conflict resolution. This course will apply multiple cases and simulations providing students with several opportunities to build their skills.

Prerequisite: 0.5 IRE/IRW credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

IRE494H1 - Advanced Topics in Industrial Relations and Human Resources

Hours: 24S

Advanced topics vary from year to year, but the objective of the course is to explore theories, concepts and emerging issues in IRHR and their impact on internal and external environments.

Prerequisite: IRE244H1, IRE260H1 and 1.0 credit in IRE at the 300+ level

Breadth Requirements: Society and its Institutions (3)

Innis College

Faculty List

Associate Professors, Teaching Stream

C. Messenger, MA
D.J. Roberts, PhD
A.L. Williams, PhD

Assistant Professor, Teaching Stream

D. Adleman, PhD
S. English, MA
A. Mehta, PhD

Introduction

Innis College offers courses that sustain two interdisciplinary academic programs: Urban Studies (designated URB) and Writing and Rhetoric (designated WRR). Innis College is also the home of the Cinema Studies Institute, which offers an impressive collection of courses (designated CIN) listed separately under Cinema Studies Institute. Courses for the Innis One Program have been inspired by the College's two academic programs and its special relationship with the Cinema Studies Institute.

Innis One: The Creative City

Innis One: The Creative City is a first-year foundations program for students who wish to develop their creative and critical capacities by exploring the dynamism of our urban environment. Drawing from the College's two academic programs — Urban Studies and Writing and Rhetoric — and its special relationship with the Cinema Studies Institute, Innis One coaxes students to venture beyond the academy walls and engage in an imaginative, inquiry-based, and civic-minded learning experience.

In a small-class setting, students will be encouraged to bring their own experience, passions and history into relationship with the civic issues and landscapes of Toronto, thus gaining a greater appreciation of the interplay between personally driven writing, film, and urban life. Seminars featuring guest lecturers, films and special field trips offer a unique experiential learning opportunity that will also help students to develop writing, research, and analytical skills.

All first-year students in the Faculty of Arts and Science (St. George campus) are eligible for admission. Further information is available at innis.utoronto.ca/academics/about-innis-one/.

Enquiries:

Email programs.innis@utoronto.ca.

Urban Studies

Urban Studies at Innis College provides students with the tools to make sense of their urban world. The Program examines the complex and dynamic relations among institutions, people, and physical form that create, sustain, or destroy cities.

The Program is suited for those students who wish to study cities using several disciplinary approaches. It is also of interest to those students who wish to become involved in urban issues in Toronto. The Program offers an internship in the office of either a municipal politician, non-profit research group, or other government organization as part of its experiential learning program. Because urban issues are so varied, Urban Studies combines well with many other program areas. Students are advised to consult the Program Director when designing programs that meet their particular interests. The Program encourages students to take advantage of the Study Elsewhere Program at the University of Toronto to broaden their knowledge of cities.

Enquiries:

Email programs.innis@utoronto.ca. Also see the Urban Studies website at <https://urban.innis.utoronto.ca/>.

Writing and Rhetoric

Innis College's Minor Program in Writing and Rhetoric offers a diverse array of courses that explore the worlds of oral, written, and online discourse.

Writing and rhetoric go hand in hand. In an increasingly digital world, where the variety and sheer number of texts are rapidly proliferating, the ability to produce persuasive and eloquent writing, as well as analyze and interpret texts, couldn't be more foundational. Guiding our program is the premise that students must be equipped to engage both theoretically and practically with the multimedial world of discourse.

Rhetoric, one of the oldest disciplines in the humanities, is fundamentally concerned with how *persuasion* circulates in society: what transpires *in* texts necessarily reflects, deflects, and impacts what happens *outside* of them. The study of rhetoric includes analyzing the circulation of influence, identities, seductions, ideologies, narratives, tropes, ideas, compromises, and effects across a wide variety of contexts: for example, digital media environments (digital rhetoric), marketing campaigns (advertising rhetoric), medical and scientific settings (rhetoric of science and technology), and the contemporary world of political activity and activism (rhetoric of social change—including feminist rhetoric, rhetoric of race, and environmental rhetoric).

Writing, one of the most important rhetorical skills that anyone can develop, is an invaluable craft both in academic programs and beyond the university. Rhetors—those who can adapt their language to audience and context and use language skillfully—exert a powerful influence in almost any setting. Our writing courses teach students how to write well in the modes, genres, and styles appropriate to particular disciplinary, institutional, and creative contexts. Each course is oriented towards the specialized writing, reading, research, and editing skills involved in a specific writing genre.

Enquiries:

Email programs.innis@utoronto.ca. Also see the Writing and Rhetoric website at <https://writingprogram.innis.utoronto.ca/>.

Innis College Programs

Urban Studies Specialist (Arts Program) - ASSPE2207

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

For students with 4.0 to 8.5 credits:

2.0 credits from two of the following groups:

- 1.0 credit in Economics: [ECO101H1](#), [ECO102H1](#), [ECO105Y1](#)
- 1.0 credit in Geography: [GGR107H1](#), [GGR112H1](#), [GGR124H1](#)
- 1.0 credit in Political Science: [POL101H1](#), [POL106H1](#), [POL107H1](#), [POL109H1](#)
- 1.0 credit in Sociology: [SOC100H1](#), [SOC150H1](#)
- 1.0 credit in Architectural/Visual Studies: [JAV120H1](#), [JAV151H1](#), [JAV152H1](#), [ARC181H1](#)

For students with 9.0 or more credits:

[URB235H1](#) (formerly [INI235H1](#)) and [URB236H1](#) (formerly [INI236H1](#)), and:

2.0 credits from two of the following groups:

- 1.0 credit in Economics: [ECO101H1](#), [ECO102H1](#), [ECO105Y1](#)

- 1.0 credit in Geography: [GGR107H1](#), [GGR112H1](#), [GGR124H1](#)
- 1.0 credit in Political Science: [POL101H1](#), [POL106H1](#), [POL107H1](#), [POL109H1](#)
- 1.0 credit in Sociology: [SOC100H1](#), [SOC150H1](#)
- 1.0 credit in Architectural/Visual Studies: [JAV120H1](#), [JAV151H1](#), [JAV152H1](#), [ARC181H1](#)

To ensure that students admitted to the program will be successful, applicants with a combined grade average lower than 70% in the required courses will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program.

Students are invited to inquire with the program office about possible appropriate substitutions for the courses above.

Completion Requirements:

(11.0 credits including at least 4.0 credits at the 300+ level, 1.0 of which must be at the 400-level)

First Year:

1. Two of the following selections:

- 1.0 credit from the following First year Economics courses: [ECO101H1](#), [ECO102H1](#), [ECO105Y1](#);
- 1.0 credit from the following First year Geography courses: [GGR107H1](#), [GGR112H1](#), and [GGR124H1](#);
- 1.0 credit from the following First year Political Science courses: [POL101H1](#) (formerly [POL101Y1](#)), [POL106H1](#), [POL107H1](#), [POL109H1](#);
- 1.0 credit from the following First year Sociology courses: [SOC100H1](#), [SOC150H1](#)
- 1.0 credit from the following First year Architectural/Visual Studies courses: [JAV120H1](#), [JAV151H1](#), [JAV152H1](#), [ARC181H1](#)

Higher Years:

2. [URB235H1](#) and [URB236H1](#)

3. 1.0 credit from [URB342H1](#)/ [ECO220Y1](#)/ [GGR270H1](#)/ [GGR271H1](#)/ [POL222H1](#)/ [POL232H1](#)/ [SOC202H1](#)/ [SOC252H1](#)

4. 2.0 credits in URB or JGU courses at the 300-level or above, including at least 1.0 credit at the 400-level.

5. 5.0 credits in at least three of the following groups, including at least 2.0 credits at the 300-level or above.

Urban Studies:

Any URB or JGU courses not already taken to fulfill requirement 4.

Economics:

ECO305H1/ ECO310H1/ ECO313H1/ ECO314H1/
ECO316H1/ ECO320H1/ ECO322H1/ ECO324H1/
ECO332H1/ ECO333H1/ ECO334H1/ ECO336H1/
ECO338H1/ ECO339H1/ ECO340H1/ ECO341H1/
ECO342H1/ ECO362H1/ ECO364H1/ ECO372H1/
ECO401H1/ IRE339H1

Geography:

GGR217H1/ GGR221H1/ GGR240H1/ GGR241H1/
GGR246H1/ GGR252H1/ GGR254H1/ GGR320H1/
GGR323H1/ GGR326H1/ GGR327H1/ GGR328H1/
GGR329H1/ GGR336H1/ GGR339H1/ GGR342H1/
GGR343H1/ GGR349H1/ GGR352H1/ GGR354H1/
GGR357H1/ GGR359H1/ GGR360H1/ GGR374H1/
GGR424H1/ GGR431H1/ GGR438H1/ GGR456H1/
GGR457H1/ GGR458H1/ GGR460H1/ GGR482H1

History:

HIS220Y1/ HIS222H1/ HIS230H1/ HIS241H1/ HIS242H1/
HIS243H1/ HIS244H1/ HIS250Y1/ HIS251Y1/ HIS262H1/
HIS265Y1/ HIS266H1/ HIS271Y1/ HIS280Y1/ HIS282Y1/
HIS292H1/ HIS297Y1/ HIS312H1/ HIS314H1/ HIS316H1/
HIS317H1/ HIS318H1/ HIS327H1/ HIS328H1/ HIS360H1/
HIS365H1/ HIS366H1/ HIS369H1/ HIS378H1/ JHA394H1/
HIS396H1/ HIS418H1/ HIS421H1/ HIS435H1/ HIS479H1/
HIS482H1/ HIS484H1

Political Science & Public Policy:

JPF455H1/ JPF456H1/ POL201H1 (formerly POL201Y1)/
POL214H1 (formerly POL214Y1)/ POL316H1 (formerly
POL316Y1)/ POL317H1/ POL349H1/ POL361H1/
POL362H1/ POL413H1/ POL438H1/ POL443H1/
POL447H1/ POL464H1/ POL467H1/ PPG301H1

Sociology:

SOC205H1/ SOC207H1/ SOC208H1/ SOC210H1/
SOC214H1/ SOC220H1/ SOC243H1/ SOC246H1/
SOC249H1/ SOC260H1/ SOC280H1/ SOC282H1/
SOC303H1/ SOC304H1/ SOC306H1/ SOC308H1/
SOC309H1/ SOC311H1/ SOC312H1/ SOC325H1/
SOC335H1/ SOC339H1/ SOC356H1/ SOC360H1/
SOC363H1/ SOC364H1/ SOC365H1/ SOC366H1/
SOC367H1/ SOC372H1/ SOC383H1/ SOC478H1/
SOC486H1

Environment:

ENV200H1/ ENV221H1/ ENV222H1/ ENV307H1/
ENV320H1/ ENV335H1/ ENV350H1/ ENV422H1/
GGR223H1/ GGR314H1/ GGR334H1/ GGR347H1/
GGR348H1/ GGR416H1/ GGR419H1/ JGE331H1

Other:

AFR250Y1/ ANT200Y1/ ANT318H1/ ANT347H1/
ANT450H1/ CDN268H1/ CDN325H1/ CDN335H1/
CDN367H1/ CDN385H1/ DTS310H1/ DTS414H1/
FAH207H1/ FAH215H1/ FAH230H1/ FAH265H1/
FAH273H1/ FAH303H1/ FAH308H1/ FAH309H1/
FAH325H1/ FAH331H1/ FAH354H1/ FAH371H1/
FAH376H1/ FAH415H1/ FAH421H1/ HST305H1/

HST330H1/ INS403H1/ JQR360H1/ JUG325H1/
LIN451H1/ RLG308H1/ RLG309H1/ SLA318H1

ARC253H1/ ARC331Y0/ VIS327Y0/ ARC354H1/
ARC355H1/ ARC357H1/ ARC367H1/ ARC383H1/
VIS406H1/ ARC453H1/ ARC467H1 (For ARC/VIS
 courses, please see Daniels Calendar)

Note: Effective Fall 2021, courses associated with Innis College's Urban Studies program will have the new "URB" designator. Joint JGI courses will also see their designator changed to "JGU."

Urban Studies Major (Arts Program) - ASMAJ2207

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

For students with 4.0 to 8.5 credits:

2.0 credits from two of the following groups:

- 1.0 credit in Economics: ECO101H1, ECO102H1, ECO105Y1
- 1.0 credit in Geography: GGR107H1, GGR112H1, GGR124H1
- 1.0 credit in Political Science: POL101H1, POL106H1, POL107H1, POL109H1
- 1.0 credit in Sociology: SOC100H1, SOC150H1
- 1.0 credit in Architectural/Visual Studies: JAV120H1, JAV151H1, JAV152H1, ARC181H1

For students with 9.0 or more credits:

URB235H1 (formerly INI235H1) and URB236H1 (formerly INI236H1), and:

2.0 credits from two of the following groups:

- 1.0 credit in Economics: ECO101H1, ECO102H1, ECO105Y1
- 1.0 credit in Geography: GGR107H1, GGR112H1, GGR124H1
- 1.0 credit in Political Science: POL101H1, POL106H1, POL107H1, POL109H1
- 1.0 credit in Sociology: SOC100H1, SOC150H1

- 1.0 credit in Architectural/Visual Studies:
JAV120H1, JAV151H1, JAV152H1, ARC181H1

To ensure that students admitted to the program will be successful, applicants with a combined grade average lower than 70% in the required courses will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program.

Students are invited to inquire with the program office about possible appropriate substitutions for the courses above.

Completion Requirements:

(7.0 credits including at least 2.0 credits at the 300+ level, 0.5 of which must be at the 400-level)

First Year:

1. Two of the following selections:

- 1.0 credit from the following First year Economics courses: ECO101H1, ECO102H1, ECO105Y1;
- 1.0 credit from the following First year Geography courses: GGR107H1, GGR112H1, and GGR124H1;
- 1.0 credit from the following First year Political Science courses: POL101H1 (formerly POL101Y1), POL106H1, POL107H1, POL109H1;
- 1.0 credit from the following First year Sociology courses: SOC100H1, SOC150H1
- 1.0 credit from the following First year Architectural/Visual Studies courses: JAV120H1, JAV151H1, JAV152H1, ARC181H1

Higher Years:

2. URB235H1 and URB236H1

3. 1.5 credits in URB or JGU courses at the 300-level or above, including at least 0.5 credit at the 400-level.

4. 2.5 credits in at least two of the following groups, including at least 0.5 credit at the 300-level or above

Urban Studies:

Any URB or JGU courses not already taken to fulfill requirement 3.

Economics:

ECO305H1/ ECO310H1/ ECO313H1/ ECO314H1/ ECO316H1/ ECO320H1/ ECO322H1/ ECO324H1/ ECO332H1/ ECO333H1/ ECO334H1/ ECO336H1/ ECO338H1/ ECO339H1/ ECO340H1/ ECO341H1/ ECO342H1/ ECO362H1/ ECO364H1/ ECO372H1/ ECO401H1/ IRE339H1

Geography:

GGR217H1/ GGR221H1/ GGR240H1/ GGR241H1/ GGR246H1/ GGR252H1/ GGR254H1/ GGR320H1/ GGR323H1/ GGR326H1/ GGR327H1/ GGR328H1/ GGR329H1/ GGR336H1/ GGR339H1/ GGR342H1/ GGR343H1/ GGR349H1/ GGR352H1/ GGR354H1/ GGR357H1/ GGR359H1/ GGR360H1/ GGR374H1/ GGR424H1/ GGR431H1/ GGR438H1/ GGR456H1/ GGR457H1/ GGR458H1/ GGR460H1/ GGR482H1

History:

HIS220Y1/ HIS222H1/ HIS230H1/ HIS241H1/ HIS242H1/ HIS243H1/ HIS244H1/ HIS250Y1/ HIS251Y1/ HIS262H1/ HIS265Y1/ HIS266H1/ HIS271Y1/ HIS280Y1/ HIS282Y1/ HIS292H1/ HIS297Y1/ HIS312H1/ HIS314H1/ HIS316H1/ HIS317H1/ HIS318H1/ HIS327H1/ HIS328H1/ HIS360H1/ HIS365H1/ HIS366H1/ HIS369H1/ HIS378H1/ JHA394H1/ HIS396H1/ HIS418H1/ HIS421H1/ HIS435H1/ HIS479H1/ HIS482H1/ HIS484H1

Political Science & Public Policy:

JPF455H1/ JPF456H1/ POL201H1 (formerly POL201Y1)/ POL214H1 (formerly POL214Y1)/ POL316H1 (formerly POL316Y1)/ POL317H1/ POL349H1/ POL361H1/ POL362H1/ POL413H1/ POL438H1/ POL443H1/ POL447H1/ POL464H1/ POL467H1/ PPG301H1

Sociology:

SOC205H1/ SOC207H1/ SOC208H1/ SOC210H1/ SOC214H1/ SOC220H1/ SOC243H1/ SOC246H1/ SOC249H1/ SOC260H1/ SOC280H1/ SOC282H1/ SOC303H1/ SOC304H1/ SOC306H1/ SOC308H1/ SOC309H1/ SOC311H1/ SOC312H1/ SOC325H1/ SOC335H1/ SOC339H1/ SOC356H1/ SOC360H1/ SOC363H1/ SOC364H1/ SOC365H1/ SOC366H1/ SOC367H1/ SOC372H1/ SOC383H1/ SOC478H1/ SOC486H1

Environment:

ENV200H1/ ENV221H1/ ENV222H1/ ENV307H1/ ENV320H1/ ENV335H1/ ENV350H1/ ENV422H1/ GGR223H1/ GGR314H1/ GGR334H1/ GGR347H1/ GGR348H1/ GGR416H1/ GGR419H1/ JGE331H1

Other:

AFR250Y1/ ANT200Y1/ ANT318H1/ ANT347H1/ ANT450H1/ CDN268H1/ CDN325H1/ CDN335H1/ CDN367H1/ CDN385H1/ DTS310H1/ DTS414H1/ FAH207H1/ FAH215H1/ FAH230H1/ FAH265H1/ FAH273H1/ FAH303H1/ FAH308H1/ FAH309H1/ FAH325H1/ FAH331H1/ FAH354H1/ FAH371H1/ FAH376H1/ FAH415H1/ FAH421H1/ HST305H1/ HST330H1/ INS403H1/ JQR360H1/ JUG325H1/ LIN451H1/ RLG308H1/ RLG309H1/ SLA318H1

ARC253H1/ ARC331Y0/ VIS327Y0/ ARC354H1/ ARC355H1/ ARC357H1/ ARC367H1/ ARC383H1/ VIS406H1/ ARC453H1/ ARC467H1 (For ARC/VIS courses, please see Daniels Calendar)

Note: Effective Fall 2021, courses associated with Innis College's Urban Studies program will have the new "URB" designator. Joint JGI courses will also see their designator changed to "JGU."

Urban Studies Minor (Arts Program) - ASMIN2207

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

For students with 4.0 to 8.5 credits:

1.0 credit from one of the following groups:

- Economics: [ECO101H1](#), [ECO102H1](#), [ECO105Y1](#)
- Geography: [GGR107H1](#), [GGR112H1](#), [GGR124H1](#)
- Political Science: [POL101H1](#), [POL106H1](#), [POL107H1](#), [POL109H1](#)
- Sociology: [SOC100H1](#), [SOC150H1](#)
- Architectural/Visual Studies: [JAV120H1](#), [JAV151H1](#), [JAV152H1](#), [ARC181H1](#)

For students with 9.0 or more credits:

[URB235H1](#) (formerly [INI235H1](#)) and [URB236H1](#) (formerly [INI236H1](#)), and:

1.0 credit from one of the following groups:

- Economics: [ECO101H1](#), [ECO102H1](#), [ECO105Y1](#)
- Geography: [GGR107H1](#), [GGR112H1](#), [GGR124H1](#)
- Political Science: [POL101H1](#), [POL106H1](#), [POL107H1](#), [POL109H1](#)
- Sociology: [SOC100H1](#), [SOC150H1](#)
- Architectural/Visual Studies: [JAV120H1](#), [JAV151H1](#), [JAV152H1](#), [ARC181H1](#)

To ensure that students admitted to the program will be successful, applicants with a combined grade average lower than 70% in the required courses will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program.

Students are invited to inquire with the program office about possible appropriate substitutions for the courses above.

Completion Requirements:

(4.0 credits, including at least 1.0 credit at the 300+ level)

First Year:

1. One of the following selections:

- 1.0 credit from the following First year Economics courses: [ECO101H1](#), [ECO102H1](#), [ECO105Y1](#);
- 1.0 credit from the following First year Geography courses: [GGR107H1](#), [GGR112H1](#), and [GGR124H1](#);
- 1.0 credit from the following First year Political Science courses: [POL101H1](#) (formerly [POL101Y1](#)), [POL106H1](#), [POL107H1](#), [POL109H1](#);
- 1.0 credit from the following First year Sociology courses: [SOC100H1](#), [SOC150H1](#)
- 1.0 credit from the following First year Architectural/Visual Studies courses: [JAV120H1](#), [JAV151H1](#), [JAV152H1](#), [ARC181H1](#)

Higher Years:

2. [URB235H1](#) and [URB236H1](#)

3. 0.5 credit in URB or JGU courses at the 300-level or above.

4. 1.5 credits in at least two of the following groups, including at least 0.5 credit at the 300-level or above.

Urban Studies:

Any URB or JGU courses not already taken to fulfill requirement 3.

Economics:

[ECO305H1](#)/ [ECO310H1](#)/ [ECO313H1](#)/ [ECO314H1](#)/
[ECO316H1](#)/ [ECO320H1](#)/ [ECO322H1](#)/ [ECO324H1](#)/
[ECO332H1](#)/ [ECO333H1](#)/ [ECO334H1](#)/ [ECO336H1](#)/
[ECO338H1](#)/ [ECO339H1](#)/ [ECO340H1](#)/ [ECO341H1](#)/
[ECO342H1](#)/ [ECO362H1](#)/ [ECO364H1](#)/ [ECO372H1](#)/
[ECO401H1](#)/ [IRE339H1](#)

Geography:

[GGR217H1](#)/ [GGR221H1](#)/ [GGR240H1](#)/ [GGR241H1](#)/
[GGR246H1](#)/ [GGR252H1](#)/ [GGR254H1](#)/ [GGR320H1](#)/
[GGR323H1](#)/ [GGR326H1](#)/ [GGR327H1](#)/ [GGR328H1](#)/
[GGR329H1](#)/ [GGR336H1](#)/ [GGR339H1](#)/ [GGR342H1](#)/
[GGR343H1](#)/ [GGR349H1](#)/ [GGR352H1](#)/ [GGR354H1](#)/
[GGR357H1](#)/ [GGR359H1](#)/ [GGR360H1](#)/ [GGR374H1](#)/
[GGR424H1](#)/ [GGR431H1](#)/ [GGR438H1](#)/ [GGR456H1](#)/
[GGR457H1](#)/ [GGR458H1](#)/ [GGR460H1](#)/ [GGR482H1](#)

History:

HIS220Y1/ HIS222H1/ HIS230H1/ HIS241H1/ HIS242H1/
HIS243H1/ HIS244H1/ HIS250Y1/ HIS251Y1/ HIS262H1/
HIS265Y1/ HIS266H1/ HIS271Y1/ HIS280Y1/ HIS282Y1/
HIS292H1/ HIS297Y1/ HIS312H1/ HIS314H1/ HIS316H1/
HIS317H1/ HIS318H1/ HIS327H1/ HIS328H1/ HIS360H1/
HIS365H1/ HIS366H1/ HIS369H1/ HIS378H1/ JHA394H1/
HIS396H1/ HIS418H1/ HIS421H1/ HIS435H1/ HIS479H1/
HIS482H1/ HIS484H1

Political Science & Public Policy:

JPF455H1/ JPF456H1/ POL201H1 (formerly POL201Y1)/
POL214H1 (formerly POL214Y1)/ POL316H1 (formerly
POL316Y1)/ POL317H1/ POL349H1/ POL361H1/
POL362H1/ POL413H1/ POL438H1/ POL443H1/
POL447H1/ POL464H1/ POL467H1/ PPG301H1

Sociology:

SOC205H1/ SOC207H1/ SOC208H1/ SOC210H1/
SOC214H1/ SOC220H1/ SOC243H1/ SOC246H1/
SOC249H1/ SOC260H1/ SOC280H1/ SOC282H1/
SOC303H1/ SOC304H1/ SOC306H1/ SOC308H1/
SOC309H1/ SOC311H1/ SOC312H1/ SOC325H1/
SOC335H1/ SOC339H1/ SOC356H1/ SOC360H1/
SOC363H1/ SOC364H1/ SOC365H1/ SOC366H1/
SOC367H1/ SOC372H1/ SOC383H1/ SOC478H1/
SOC486H1

Environment:

ENV200H1/ ENV221H1/ ENV222H1/ ENV307H1/
ENV320H1/ ENV335H1/ ENV350H1/ ENV422H1/
GGR223H1/ GGR314H1/ GGR334H1/ GGR347H1/
GGR348H1/ GGR416H1/ GGR419H1/ JGE331H1

Other:

AFR250Y1/ ANT200Y1/ ANT318H1/ ANT347H1/
ANT450H1/ CDN268H1/ CDN325H1/ CDN335H1/
CDN367H1/ CDN385H1/ DTS310H1/ DTS414H1/
FAH207H1/ FAH215H1/ FAH230H1/ FAH265H1/
FAH273H1/ FAH303H1/ FAH308H1/ FAH309H1/
FAH325H1/ FAH331H1/ FAH354H1/ FAH371H1/
FAH376H1/ FAH415H1/ FAH421H1/ HST305H1/
HST330H1/ INS403H1/ JQR360H1/ JUG325H1/
LIN451H1/ RLG308H1/ RLG309H1/ SLA318H1

ARC253H1/ ARC331Y0/ VIS327Y0/ ARC354H1/
ARC355H1/ ARC357H1/ ARC367H1/ ARC383H1/
VIS406H1/ ARC453H1/ ARC467H1 (For ARC/VIS
 courses, please see Daniels Calendar)

Note: Effective Fall 2021, courses associated with Innis College's Urban Studies program will have the new "URB" designator. Joint JGI courses will also see their designator changed to "JGU."

Writing and Rhetoric Minor (Arts Program) - ASMIN2137

For program information, visit the Writing and Rhetoric website: <https://writingprogram.innis.utoronto.ca/wr/>. You may also contact the Writing and Rhetoric Program Coordinator at programs.innis@utoronto.ca.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300/400-level.)

1. 2.5 credits in WRR or JWE courses
2. 1.5 credits from the following courses not already used to fulfill requirement 1. Courses outside these lists, which include WRR topics and independent study courses, may be included as designated by the Program Director.

Analysis and Argumentation

WRR103H1/ WRR203H1/ WRR204H1/ JWE206H1/
WRR304H1/ WRR308H1/ WRR317H1/ WRR408Y1/
WRR409H1/ WRR410H1/ ENG100H1/ ENG281H1/
LIN481H1/ PHL275H1/ TRN200Y1

Professional and Public Writing

WRR104H1/ WRR300H1/ WRR302H1/ WRR306H1/
WRR309H1/ WRR310H1/ WRR312H1/ WRR316H1/
BMS100H1/ BMS200Y1/ BMS300H1/ BMS331H1/
BMS332H1/ CDN221H1/ PHL295H1/ REN345H1

Rhetoric, Theory and Narrative

WRR201H1/ WRR211H1/ WRR301H1/ WRR303H1/
WRR305H1/ WRR307H1/ WRR311H1/ WRR311Y1/
WRR313H1/ WRR315H1/ WRR413H1/ WRR414H1/
ANT253H1/ ANT329H1/ CRE275H1/ CRE291H1/
CRE280H1/ CRE350Y1/ CRE480H1/ ENG110Y1/
ENG205H1/ ENG213H1/ ENG235H1/ ENG237H1/
ENG239H1/ ENG285H1/ ENG385H1/ ENG289H1/
ENG387H1/ JAL328H1/ JAL355H1/ LIN200H1/
LIN201H1/ LIN203H1/ LIN204H1/ WGS396H1

Notes:

- No more than a 0.5 credit in transfer credit may be counted towards the program.

Regarding Innis College Courses

Note

Courses are listed in this order:

Innis College Courses

Innis College First-Year Foundations

INI196H1 - Environmental Writing

Hours: 24L

From environmental disasters and ecological collapse to climate change denial and celebrations of nature and wilderness, we will explore the diverse ways humans imagine and write about the natural world and the consequences of such writing. We will study a variety of nonfiction texts, images, and videos about ecology, the environment, nature, wilderness, and sustainability as we consider what these terms mean. From the 19th century American transcendentalists to 20th century ecologists, and 21st century scientific, Indigenous, feminist, and anti-racist perspectives, we will analyze the many ways that humans use writing to argue for certain ways of seeing and interacting with our planet and the creatures that inhabit it. Through weekly reading, written reflections, and discussion, students will hone their deep reading, research, and writing skills. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

Innis One Courses

INI100H1 - The City Where Movies Are Made

Hours: 36S

In this course, first-year students will be introduced to film culture in Toronto from a variety of angles, including: a history of the city onscreen (both as itself and as a popular shooting location for American productions); an account of major Toronto filmmaking sites and institutions; introductions to local directors and producers; and overviews of contemporary local film festival culture (TIFF

- First-Year Foundations Seminars
- Innis One
- Urban Studies
- Writing and Rhetoric
- Other Innis College courses

For Cinema Studies Courses, see [Cinema Studies Institute](#).

and beyond) as well as the city's film-critical community. Through a combination of lectures, screenings, field trips and special guest speakers, the students will be moved to consider both the vitality of Toronto's film scene as well as its connections to other aspects of the city. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

INI101H1 - Blogging the Just City

Hours: 36S

An introduction to the concept of the city as a creative environment promoting not only growth and wealth but also social justice, equality, cooperation, and civility. Students will learn to build their own blog to help them to observe, interpret, and reflect upon the process of urban interaction and the relationship between creativity and justice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

INI102H1 - Telling the Stories of the City: Writing Creative Non-Fiction

Hours: 36S

An introduction to creative writing techniques and the personal essay form through which students will explore and develop their conscious connection to the natural-urban landscape. The course will include activities such as field trips, readings, interviews, and journaling to generate the material for personal essays on engagement with nature in the city. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

INI105H1 - Nature and the City

Hours: 36S

This course introduces first-year students to nature in the city from a variety of perspectives: from contemplative to activist discourse, private gardens to public parks, and biodiversity to inequality. Through texts, images, films, and field trips, students will figuratively and literally explore the city and its relationship to the natural, the wild, and other contested ideas. Students write weekly journals in response to the course materials from which they develop a term project that focuses on an aspect of nature in the city.

Breadth Requirements: Creative and Cultural Representations (1)

INI106H1 - Writing Literary Journalism: Telling the Stories of the City

Hours: 36S

An introduction to literary journalism, in which students study the craft of storytelling along with interviewing, reporting, and the journalist's ethical stance. Guest speakers, field trips, writing activities and course readings will help students engage deeply with their environment and develop the skills and sensitivity required for literary reporting. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

Urban Studies Courses

JGU216H1 - Globalization and Urban Change

Previous Course Number: JGI216H1
Hours: 24L

Focusing on the impacts that global flows of ideas, culture, people, goods, and capital have on cities throughout the globe, this course explores some of the factors that differentiate the experiences of globalization and urban change in cities at different moments in history and in various geographic locations.

Exclusion: JGI216H1

Recommended Preparation: GGR124H1

Breadth Requirements: Society and its Institutions (3)

URB234H1 - Cities in Popular Culture

Previous Course Number: INI234H1
Hours: 24L

By exploring different popular culture phenomena such as the emergence of hip-hop in the Bronx, Batman's Gotham, and Nollywood, this course works to examine the contributions of popular culture in shaping our understandings of cities (as well as providing different perspectives of the city and the urban experience than is generally captured in scholarly/academic literature). Popular culture becomes a vehicle by which we will explore different aspects of urban life and urban representation.

Prerequisite: Completion of 4.0 credits

Exclusion: INI234H1

Breadth Requirements: Society and its Institutions (3)

URB235H1 - A Multidisciplinary Introduction to Urban Studies I: Theoretical Foundations of City Building

Previous Course Number: INI235H1
Hours: 24L

Focuses on the theoretical foundations of urbanization, urban change, and city building, with particular attention on global urban growth, history of contemporary urbanization, urban planning, governance, built form, and economic development. These topics are explored through a multidisciplinary lens, with an emphasis on understanding urban transitions over time and their meaning for contemporary urban experience.

Prerequisite: Completion of 4.0 credits, including 1.0 credit from any of the following courses: ECO101H1, ECO102H1, ECO105Y1, GGR107H1, GGR112H1, GGR124H1, POL101H1, POL106H1, POL107H1, POL109H1, SOC100H1, SOC150H1, JAV120H1, JAV151H1, JAV152H1, ARC181H1

Exclusion: INI235H1, INI235Y1

Breadth Requirements: Society and its Institutions (3)

URB236H1 - A Multidisciplinary Introduction to Urban Studies II: Urban Challenges and Theoretical Application

Previous Course Number: INI236H1
Hours: 24L

Cities are centres of innovation and creative energy, but they also face significant and pressing challenges. This course explores various urban issues including inequality, eroding infrastructure, and concerns arising from globalization, while also examining the ways in which municipal governments and urban citizens are imagining and implementing potential solutions to these challenges.

Prerequisite: [URB235H1](#)

Exclusion: [INI235Y1](#), [INI236H1](#)

Breadth Requirements: Society and its Institutions (3)

URB333H1 - Social Justice in the City

Previous Course Number: INI333H1

Hours: 24L

How do power and dominance consolidate in urban settings? How do individuals and communities contest this consolidation, and claim spaces and rights in the city? These questions will be taken up through a range of critical approaches, including Indigenous, critical race feminist, political economy, queer, and anarchist perspectives. Students will have the opportunity to carry out interview-based research on an issue of equality and social justice that matters to them.

Exclusion: [INI333H1](#)

Breadth Requirements: Society and its Institutions (3)

URB334H1 - Urban Field Course

Previous Course Number: INI334H1

Hours: 12S

Students will have the opportunity to travel to a destination city for a week-long examination of specific social, economic, physical, and/or environmental issues. The trip will include meetings with municipal representatives and other decision-makers (public and possibly private). The findings of the trip supplemented by bibliographic research and in-class discussion will form the basis of a major research essay. Each student is required to pay the cost of transportation and accommodation. Not eligible for CR/NCR option.

Prerequisite: [URB235H1](#) and [URB236H1](#)

Exclusion: [INI334H1](#)

Breadth Requirements: Society and its Institutions (3)

URB335H1 - City Challenges, City Opportunities in a 21st Century Toronto

Hours: 12L/12S

Over the last 50+ years, Toronto has become a national and international centre of economic activity, with a vibrant arts and culture scene and world-renowned research, educational, and health institutions. Additionally, the City has become one of the most culturally diverse cities in the world. That said, Toronto also struggles with deep inequalities along many different axes, an affordable housing crisis, underfunded infrastructure needs, and

many other challenges. This course provides a window into how the leadership at the City of Toronto think and approach these and other issues as the City works to plan for the recovery from COVID-19.

Prerequisite: Completion of 9.0 credits

Exclusion: [URB338H1](#) (Advanced Topics in Urban Studies I: City Challenges, City Opportunities in a 21st Century Toronto), offered in Fall 2021

Recommended Preparation: [URB235H1](#), [URB236H1](#), [GGR124H1](#)

Breadth Requirements: Society and its Institutions (3)

URB336H1 - Creative Cities

Previous Course Number: INI336H1

Hours: 24L

A prominent thesis in the fields of planning and economic geography is that the presence of creative occupations in a city correlates positively with the overall health of urban regions. This course will investigate the nature of this link from theoretical and empirical perspectives and examine its potential usefulness in a planning/policy context.

Exclusion: [INI336H1](#), [INI336Y1](#)

Recommended Preparation: [URB235H1](#)/ [URB236H1](#)/ [GGR124H1](#)

Breadth Requirements: Society and its Institutions (3)

URB337H1 - Housing and Homelessness

Previous Course Number: INI337H1

Hours: 24L

Toronto, like other global cities, is characterized by a stark dichotomy: upscale residential and commercial development transforms the landscape, even while increasing numbers of residents are forced to live on the streets, in encampments, in shelters, or crowded into unaffordable and substandard housing. This course will examine that paradox and activism that is trying to achieve the federal government's stated goal: "By 2030, everyone in Canada has a home that they can afford and that meets their needs". Through readings, discussions, guest presenters, and activities, we will trace the links between housing, homelessness, and urban politics; review policies and trends at the municipal, provincial/territorial and national levels; and connect with urban movements to contest displacement.

Exclusion: [INI337H1](#)

Recommended Preparation: [GGR124H1](#)/ ([URB235H1](#), [URB236H1](#))

Breadth Requirements: Society and its Institutions (3)

URB338H1 - Advanced Topics in Urban Studies I

Previous Course Number: INI338H1

Hours: 24L

This course will expose students to a range of contemporary theoretical, analytical, and policy oriented debates in Urban Studies. The emphasis will be on establishing a broad knowledge base in the multifaceted field of urban studies. The exact topics to be covered will fall broadly under the banner of urban socioeconomic change, and specific syllabi, year to year, will follow contemporary and emerging debates.

Breadth Requirements: Society and its Institutions (3)

URB339H1 - Divided City / United City

Previous Course Number: INI339H1

Hours: 24L

Focus on the impact of increased economic inequality and economic polarization trends that are reshaping Canada's metropolitan areas, changing neighbourhoods, and affecting the lives of our diverse urban population. Using the Toronto area as an example, students explore the consequences of these trends and the implications for public policy.

Prerequisite: Completion of 8.0 credits

Exclusion: INI339H1

Breadth Requirements: Society and its Institutions (3)

URB342H1 - Qualitative Research in Urban Studies

Previous Course Number: INI342H1

Hours: 24S

This course provides students an opportunity to craft and initiate an Urban Studies capstone research project. Students will gain knowledge, experience and insight in utilizing qualitative research methods including interviewing, focus groups, observational analysis and other techniques. Seminars and assignments focus on the application of qualitative methods to each student's selected urban research question.

Exclusion: INI342H1

Recommended Preparation: URB235H1

Breadth Requirements: Society and its Institutions (3)

JGU346H1 - The Urban Planning Process

Previous Course Number: JGI346H1

Hours: 24L

Overview of how planning tools and practice shape the built form of cities. This course introduces twentieth century physical planning within its historical, social, legal, and political contexts. Community and urban design issues are addressed at local and regional scales and in both central cities and suburbs. The focus is on Toronto and the Canadian experience, with comparative examples from other countries, primarily the United States. Transportation costs: \$20.

Exclusion: JGI346H1, GGR361H5

Recommended Preparation: 8.0 credits including

GGR124H1, URB235H1, URB236H1

Breadth Requirements: Society and its Institutions (3)

URB430H1 - Advanced Topics in Urban Studies II

Previous Course Number: INI430H1

Hours: 24L

This course is meant to be a senior complement to URB338H1 whereby important theoretical, analytical and/or policy debates are addressed in a research seminar format. Students in URB430H1 will be expected to extend, or refine research topics identified and explored in URB338H1 in a major independent research project. Students will present their proposals, their progress reports, and their final results to the instructor and the class.

Prerequisite: Completion of 9.0 credits, including

URB235H1, URB236H1

Breadth Requirements: Society and its Institutions (3)

URB431Y1 - Special Topics in Urban Studies

Previous Course Number: INI431Y1

Special topics courses are offered periodically for senior students in the Urban Studies Program. Offerings in any given year will depend on program priorities, availability of specialized expertise and funding. Not eligible for CR/NCR option.

Recommended Preparation: URB235H1, URB236H1, completion of research design and research methods courses, 14.0 credits in an aligned social science program.

URB432H1 - Special Topics in Urban Studies

Previous Course Number: INI432H1

Special topics courses are offered periodically for senior students in the Urban Studies Program. Offerings in any given year will depend on program priorities, availability of specialized expertise and funding. Not eligible for CR/NCR option.

Recommended Preparation: URB235H1 and URB236H1, completion of research design and research methods courses, 14.0 credits in an aligned social science program.

URB433H1 - Special Topics in Urban Studies

Previous Course Number: INI433H1

Hours: 24S

Special topics courses are offered periodically for senior students in the Urban Studies Program. Offerings in any given year will depend on program priorities, availability of specialized expertise and funding. Not eligible for CR/NCR option.

Recommended Preparation: URB235H1 and URB236H1, completion of research design and research methods courses, 14.0 credits in an aligned social science program.

URB434Y1 - Independent Research in Urban Studies

Previous Course Number: INI434Y1

Designed to allow strong students in the Major and Specialist programs to extend a piece of urban research under the supervision of a faculty member from any aligned department. Choice of 'H' or 'Y' session pursuant to the scope of the research envisioned, the proposed supervisor's assessment of depth of the inquiry, and the approval of the program director. Proposals, including a letter from an agreeable supervisor should be submitted to the program director by June 1 for a Fall or Year session course and by November 1 for a Spring session course. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits including URB235H1 and URB236H1
Exclusion: INI434Y1

URB435H1 - Independent Research in Urban Studies

Previous Course Number: INI435H1

Designed to allow strong students in the Major and Specialist programs to extend a piece of urban research under the supervision of a faculty member from any aligned department. Choice of 'H' or 'Y' session pursuant to the scope of the research envisioned, the proposed supervisor's assessment of depth of the inquiry, and the approval of the program director. Proposals, including a letter from an agreeable supervisor should be submitted to the program director by June 1 for a Fall or Year session course and by November 1 for a Spring session course. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits including URB235H1 and URB236H1
Exclusion: INI435H1

URB436H1 - Independent Research in Urban Studies

Previous Course Number: INI436H1

Designed to allow strong students in the Major and Specialist programs to extend a piece of urban research under the supervision of a faculty member from any aligned department. Choice of 'H' or 'Y' session pursuant to the scope of the research envisioned, the proposed supervisor's assessment of depth of the inquiry, and the approval of the program director. Proposals, including a letter from an agreeable supervisor should be submitted to the program director by June 1 for a Fall or Year session course and by November 1 for a Spring session course. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits including URB235H1 and URB236H1
Exclusion: INI436H1

URB437Y1 - Urban Experiential Learning in Toronto & the GTA

Previous Course Number: INI437Y1

Hours: 72S

A method of studying city issues that combines readings, seminar discussions, and field trips with an 8 hour / week internship in the office of a municipal politician, local government, or non-profit organization. Readings focus on community development, urban planning, economic development and local governance. Students must fill out

a ballot for the course (available by contacting the Urban Studies Program Office) by June 1st. Enrolment in this course is competitive and at the discretion of the Urban Studies Director and/or course instructor.

Prerequisite: URB235H1, URB236H1. Priority is given to students enrolled in the Urban Studies Minor, Major, or Specialist Programs. However, consideration may be given to students with suitable course background as determined by the Program Director.

Exclusion: INI437Y1, INI306Y1

Breadth Requirements: Society and its Institutions (3)

URB438H1 - Advanced Urban Research Project

Previous Course Number: INI438H1

Hours: 24S

This course will allow students to investigate an urban topic of their choice in a guided seminar environment. This course will guide students through the various steps of the research process including: proposal writing and refinement, secondary research, primary data acquisition, analysis and the production of a senior research paper. The course emphasizes the connections between the design, implementation and write-up of an in-depth research paper. Not eligible for CR/NCR option.

Prerequisite: URB235H1 and URB236H1

Exclusion: INI438H1, INI438Y1

Recommended Preparation: URB342H1

Breadth Requirements: Society and its Institutions (3)

URB439H1 - Cities and Mega-events: Place-making, Contestation and Urban Citizenship

Previous Course Number: INI439H1

Hours: 24S

Mega-events, like the Olympics, give cities the opportunity to showcase themselves to the world, but the production of television-friendly urban images do much to obscure the processes, compromises and social consequences in host cities. These events are powerful tools for city branding. They are also potential opportunities for social movements and other groups and individuals to highlight their own sets of concerns. This course will explore the challenges and opportunities that cities face in hosting such events.

Prerequisite: Completion of 12.0 credits

Exclusion: INI439H1; INI430H1 (Advanced Topics in Urban Studies II: Cities and Mega-Events: Conflicts and Opportunity) offered in Winter 2014; INI332H1; INI432H1

(Special Topics in Urban Studies: Cities and Mega-Events), offered in Fall 2016

Breadth Requirements: Society and its Institutions (3)

URB440H1 - The Changing Culture of Regent Park

Previous Course Number: URB430H1, INI430H1

Hours: 24L

This course is a collaboration with the organization Regent Park Focus Youth Media Arts Centre, a not-for-profit organization that was established to counter negative stereotypes about the Regent Park community. Together, University of Toronto students and Regent Park Focus youth members will learn about media projects initiated by young people across the world, and how these creative forms of communication, organizing, and expression spurred change and social movements in their respective communities. U of T students and Regent Park Focus youth will work together to create their own media project about the neighborhood.

Prerequisite: URB235H1, URB236H1, URB342H1 (or other qualitative research methods course); or permission of instructor

Exclusion: URB430H1 (*The Changing Culture of Regent Park*, offered in Fall 2022, Winter 2024), INI430H1 (*Youth, Arts and Engagement in Cities*, offered in Winter 2019, Winter 2020)

Breadth Requirements: Society and its Institutions (3)

URB442H1 - Urban Studio: Public Participation in Policy Making

Previous Course Number: URB432H1, INI432H1

Hours: 24S

This course will provide a broad overview of the roles of both the citizen and the professional practitioner in advancing effective and meaningful public participation in the policy-making process, particularly as it relates to city planning. Through an examination of a mix of theoretical frameworks and case studies from Toronto and elsewhere, you will gain an understanding of the ways in which effective public participation can contribute to the maintenance of a healthy democratic society while also exploring some of the key challenges and opportunities faced by public participation practitioners today. The course has two key objectives: to give you a practical understanding of all of the elements of an effective public participation process, and to explore how public participation processes can be designed to be more inclusive and effective. In addition, students will be able to apply this knowledge towards the development of a project or report for a client.

Prerequisite: 9.0 credits

Exclusion: *Urban Studio: Public Participation in Policy Making* taken under [URB432H1](#) (offered in Fall 2022)/[INI432H1](#) (offered in Summer 2017, 2018, 2019, 2020, 2021)

Recommended Preparation: [URB235H1](#), [URB236H1](#), completion of 14.0 credits

Breadth Requirements: Society and its Institutions (3)

JGU454H1 - The Role of the Planner: Making a Difference

Previous Course Number: JGI454H1

Hours: 24L

Focuses on the role of a planning practitioner in contemporary society using a wealth of examples drawn from recent issues and debates in Canadian cities and regions. The course will walk students through the demands made of planners in terms of both technical expertise as well as political necessity and ask them to think actively about how to prepare for the extraordinary growth of cities during the next century. Examples of issues that will be discussed in some detail include the myths surrounding the city vs. the suburbs, the creativity and passion involved in planning work and the need to see Toronto's future from a regional perspective.

Prerequisite: 14.5 credits, 5.0 of which must be GGR/URB

Exclusion: [JGI454H1](#)

Breadth Requirements: Society and its Institutions (3)

Writing and Rhetoric Courses

WRR103H1 - Introduction to Academic Writing

Previous Course Number: INI103H1

Hours: 36L

This course introduces students to the strategies and practices of successful writing at the university and beyond. [WRR103H1](#) challenges students to reflect on and cultivate their strengths as readers and writers as they enter the university. Students will develop their critical reading abilities and written communication skills through meaningful writing projects in diverse genres, including multimodal composition.

Exclusion: [INI103H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

WRR104H1 - Writing Reports

Previous Course Number: INI104H1

Hours: 36S

Students will learn the fundamentals of report writing, including how to write abstracts and conduct literature reviews as well as qualitative and quantitative research. Students also learn to communicate visually, including how to create tables, charts, and graphs with attention to purpose, audience, structure, style, skills they apply to a formal report and a poster presentation.

Exclusion: [INI104H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

WRR201H1 - Theories of Rhetoric: A Brief History of Persuasion

Previous Course Number: INI201H1

Hours: 36S

When contemporary critics seek to discredit dishonest politicians, they tend to refer to their discourse as “mere rhetoric.” But there is so much more to rhetoric than deception. This course examines the history of rhetoric, the art of persuasion, from its birth in Greco-Roman antiquity to its rebirth in twentieth and twenty-first century thought. In addition to tracking the history of Western ideas about persuasion, we will bring rhetorical theories to bear on vital questions about philosophy, psychology, media, and advertising.

Prerequisite: Completion of 4.0 credits

Exclusion: [INI201H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

JWE206H1 - Writing English Essays

Previous Course Number: JEI206H1

Hours: 24L/12T

This course teaches students who already write effectively how to write clear, compelling, research-informed English essays. The course aims to help students recognize the function of grammar and rhetoric, the importance of audience, and the persuasive role of style.

Prerequisite: Completion of 1.0 ENG credit or any 4.0 credits

Exclusion: [JEI206H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

WRR211H1 - Introduction to Creative Writing

Previous Course Number: INI211H1

Hours: 36S

This introductory course focuses on the process and craft of creative writing. Students will study short fiction, creative nonfiction and poetry by established writers, and learn to respond to works-in-progress by their peers. A variety of activities will help students generate, develop, and revise a portfolio of original creative work.

Prerequisite: Completion of 4.0 credits

Exclusion: INI211H1

Breadth Requirements: Creative and Cultural Representations (1)

WRR300H1 - Strategic Writing in Business and the Professions: Theory and Practice

Previous Course Number: INI300H1

Hours: 36S

Students learn the theory and practice of effective and ethical communication in the workplace, including business, government, and non-profit organizations. Students apply ethical reasoning models to case studies. Students have an opportunity to work directly with a community partner, helping them to solve an industry-specific problem or concern. This experiential learning enables students to work together as a team to develop relevant solutions as they strengthen their written and verbal communication skills.

Prerequisite: Completion of 4.0 credits

Exclusion: INI300H1, INI302H1, WRR302H1

Breadth Requirements: Creative and Cultural Representations (1)

WRR302H1 - Writing in Business and the Professions for Rotman Commerce Students

Previous Course Number: INI302H1

Hours: 24L/12T

Designed for and restricted to Rotman Commerce undergraduates, the course reflects the program's learning goals, which include critical thinking, ethical reasoning, and business and professional communication (oral and written). Students apply business communication theory and ethical reasoning models to business cases. Students have an opportunity to work

directly with a community partner, helping them to solve an industry-specific problem or concern. This experiential learning enables students to work together as a team to develop relevant solutions as they strengthen their written and verbal communication skills

Prerequisite: Completion of 4.0 credits

Exclusion: INI300H1, INI302H1, WRR300H1

Breadth Requirements: Creative and Cultural Representations (1)

WRR303H1 - Digital Rhetoric

Previous Course Number: INI303H1

Hours: 36S

This course explores the pivotal role that media plays in our culture. Beginning with U of T rhetorician Marshall McLuhan's far-reaching ideas about media environments, WRR303H1 takes students on a journey through a wide variety of ideas about media, technology, and rhetoric. Topics include the rhetorical dimensions of social media platforms, the strengths and shortcomings of online activism, the emergence of surveillance capitalism, and the operation of persuasion in dating apps.

Prerequisite: 4.0 credits

Exclusion: INI303H1

Breadth Requirements: Creative and Cultural Representations (1)

WRR304H1 - The Illusion and Reality of Evidence

Previous Course Number: INI304H1

Hours: 24L

This seminar in critical reading, analysis, and writing focuses on the nature, the evaluation, and the use and abuse of evidence in the process of formulating and supporting an argument. The case study method will be employed to assess the level of authority, credibility, and objectivity evident in public discourse, official sources, and academic inquiry.

Prerequisite: Completion of 4.0 credits, including 0.5 credit of WRR/JWE courses.

Exclusion: INI304H1

Breadth Requirements: Thought, Belief and Behaviour (2)

WRR305H1 - Word and Image in Modern Writing

Previous Course Number: INI305H1

Hours: 36S

This course examines the persuasive power of writing about visual art and texts. Students will analyze a variety of texts about visual images from several disciplines and genres: journalism, informal essays, poetry, and scholarly writing.

Prerequisite: Completion of 4.0 credits

Exclusion: INI305H1

Breadth Requirements: Creative and Cultural Representations (1)

WRR306H1 - Writing About Plants and the Environment

Hours: 36S

This course uses rhetoric, the study of persuasion, to analyze the cultural, political, and scientific importance of plants. We examine Indigenous knowledge related to plants and the environment as well as debates about plant communication, urban tree coverage and inequality, and environmental justice issues. We also explore the social and health benefits of community gardening, horticultural therapy, and forest bathing. Students reflect on their own relation to land as they deepen their knowledge and appreciation of plants and develop expertise in communicating with public audiences through multimodal writing projects (such as podcasts and video essays) and local field trips.

Prerequisite: 4.0 credits

Exclusion: WRR308H1 (Selected Topics in Writing and Rhetoric: Writing About Plants and the Environment) offered in Fall 2023 and Winter 2023.

Breadth Requirements: Thought, Belief and Behaviour (2)

WRR307H1 - Rhetoric of Health and Medicine

Hours: 36S

Since its inception, rhetoric has been concerned with persuasion and its relationship to human flourishing. This course brings rhetorical thought into important dialogue with health research, medical practices, and pharmaceutical advertising. Medicalized phenomena—like hypochondria, depression, sexual dysfunction, and death & dying—are all bound up with influence. A rhetorical perspective on health and wellness tracks this influence

through networks of individuals, institutions, texts, media forms, genres, and narratives.

Prerequisite: Completion of 4.0 credits

Exclusion: INI308H1 (Selected Topics in Writing and Rhetoric: Rhetoric of Health and Medicine) offered in Fall 2019, and WRR308H1 (Selected Topics in Writing and Rhetoric: Rhetoric of Health and Medicine) offered in Winter 2022

Breadth Requirements: Thought, Belief and Behaviour (2)

WRR308H1 - Selected Topics in Writing and Rhetoric

Previous Course Number: INI308H1

Hours: 24S

Courses on selected topics in Writing and Rhetoric.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

WRR309H1 - Professional Communication with Environmental Groups

Hours: 36S

Given the climate crisis, how do environmental groups use communication to advance their aims? In this community-engaged learning course, students work with environmental organizations on professional communication projects. Students learn about rhetoric and communication as they refine and reflect on their writing processes and practice writing in multiple genres. Students create a variety of multimodal communication projects such as social media and web content for community partners. Through readings, reflection, discussion, and projects involving feedback from peers, instructor, and community partners, students learn principles and strategies to inform and persuade a variety of audiences about environmental issues.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

WRR310H1 - Stylistic Editing and Copy Editing

Previous Course Number: INI310H1

Hours: 36S

This course introduces students to professional editorial conventions at two later stages of the editorial process. Both stages require analytical skills and sentence expertise. Through stylistic editing, students learn how to improve a writer's literary style; through copy editing, they learn how to ensure both accuracy and consistency (editorial style).

Prerequisite: Completion of 4.0 credits

Exclusion: INI310H1

Breadth Requirements: Creative and Cultural Representations (1)

WRR311H1 - Seminar in Creative Writing – Fiction

Previous Course Number: WRR311Y1, INI311Y1

Hours: 36S

This workshop-based course teaches students about the creative writing process and the fundamentals of writing fiction specifically. Through readings of fiction in various genres, discussions, creative writing prompts and longer assignments, students learn how storytellers work with setting, character, scenes, structure, point-of-view, style and other elements. Students will learn how to take creative risks and grow through writing fiction, how to develop solid work from shaky drafts, how to be generous yet shrewd editors of their own and others' work, and how and why to be active in a writing community.

Prerequisite: 4.0 credits

Exclusion: WRR311Y1, INI311Y1

Breadth Requirements: Creative and Cultural Representations (1)

WRR312H1 - Writing Literary Journalism

Hours: 36L

This course introduces students to works by some of the most influential literary journalists of the twentieth and twenty-first centuries. Classes will be devoted to individual literary-journalistic genres: the personal essay, the profile, the polemic, the memoir, literary reportage, and cultural criticism. Students will look closely at key writers who worked across these genres: George Orwell, James Baldwin, Joan Didion, Joyce Carol Oates. Over the semester, students will develop and write a feature-length work of literary journalism in a genre of their choice, to be refined through peer workshop and instructor feedback.

Prerequisite: Completion of 4.0 credits

Exclusion: INI308H1 (Selected Topics in Writing and Rhetoric: Writing Literary Journalism), offered in Summer 2021

Recommended Preparation: Experience or strong interest in writing journalism.

Breadth Requirements: Creative and Cultural Representations (1)

WRR313H1 - Visual Rhetoric

Previous Course Number: INI413H1, WRR413H1

Hours: 36L

This course examines how images and objects communicate with and persuade viewers. Visual rhetoric is part of the broader academic field known as rhetorical studies. This course will introduce students to the "language" of display, exploring questions such as the following: How does physical arrangement, context, and architectural space give voice to the silent object? How are fine art and decorative art objects invested with meaning? Students will be introduced to object-based learning and material culture and learn to analyze and interpret visual grammar in international exhibitions, in auction and exhibition catalogues, in reviews of exhibits, and in museum collections. Objects will include ceramics, jewellery, interiors, architecture, and fashion in the eighteenth, nineteenth, and twentieth centuries.

Prerequisite: Completion of 4.0 credits

Exclusion: INI413H1, WRR413H1

Recommended Preparation: WRR103H1/ WRR203H1/ WRR204H1

Breadth Requirements: Society and its Institutions (3)

WRR315H1 - Writing from Territory: Creative Writing in Fiction and Nonfiction

Hours: 36S

This course guides students in a creative writing process that is engaged with place and time. Classes are held outdoors at various locations in Toronto. Through guided writing activities, discussions, assignments and writing workshops, students learn how writing grounded in and informed by territory can expand their work, adding intimacy, immediacy, authenticity and depth. Readings and techniques are drawn from literary fiction of different genres (e.g., realism, speculative, YA, fantasy), and a range of creative nonfiction. Students are invited to explore any genre.

Prerequisite: Completion of 4.0 credits

Exclusion: WRR308H1 (Selected Topics in Writing and Rhetoric: Writing From Territory: Creative Writing in Fiction and Nonfiction) offered in Summer 2023

Breadth Requirements: Creative and Cultural Representations (1)

WRR316H1 - Developmental and Substantive Editing

Previous Course Number: INI316H1

Hours: 36S

This course introduces professional editorial conventions at two early stages of the editorial process. Both stages require editors to think critically and creatively as they assess content, organization, and argument. Students learn how to analyze and evaluate these elements, envision possible improvements, and explain these suggestions persuasively.

Prerequisite: Completion of 4.0 credits

Exclusion: INI316H1

Breadth Requirements: Creative and Cultural Representations (1)

WRR317H1 - Advanced Academic Writing

Previous Course Number: WRR203H1

Hours: 36S

The course covers various kinds of academic writing, including the essay, the long form book review, the annotated bibliography, and the undergraduate thesis. Students learn to recognize the rhetorical frames, persuasive strategies, elements of style, and uses of scholarly evidence that are features of academic writing. Readings include academic and non-academic prose from a variety of disciplines. Through reading, research, reflection, writing, and citation of sources, students learn to engage in the scholarly conversation that is foundational to all advanced academic writing. Students will develop voices as writers in dialogue with other writers, scholars, and commentators.

Prerequisite: Completion of 4.0 credits

Exclusion: WRR203H1

Recommended Preparation: Any first or second-year writing course.

Breadth Requirements: Thought, Belief and Behaviour (2)

WRR405Y1 - Independent Studies in Writing and Rhetoric

Previous Course Number: INI405Y1

Independent research projects devised by students and supervised by the Writing and Rhetoric staff. Open only to students who are completing the Minor Program in Writing and Rhetoric Program. Applications should be submitted to the Program Director by June 1 for a Fall session

course or by November 1 for a Spring session course. Not eligible for CR/NCR option.

Prerequisite: 1.0 credit from WRR103H1/ WRR104H1, WRR201H1, WRR203H1, WRR303H1, WRR305H1, WRR413H1, WRR414H1

Exclusion: INI405Y1

WRR406H1 - Independent Studies in Writing and Rhetoric

Previous Course Number: INI406H1

Independent research projects devised by students and supervised by the Writing and Rhetoric staff. Open only to students who are completing the Minor Program in Writing and Rhetoric Program. Applications should be submitted to the Program Director by June 1 for a Fall session course or by November 1 for a Spring session course. Not eligible for CR/NCR option.

Prerequisite: 1.0 credit from WRR103H1/ WRR104H1, WRR201H1, WRR203H1, WRR303H1, WRR305H1, WRR413H1, WRR414H1

Exclusion: INI406H1

WRR407H1 - Independent Studies in Writing and Rhetoric

Previous Course Number: INI407H1

Independent research projects devised by students and supervised by the Writing and Rhetoric staff. Open only to students who are completing the Minor Program in Writing and Rhetoric Program. Applications should be submitted to the Program Director by June 1 for a Fall session course or by November 1 for a Spring session course. Not eligible for CR/NCR option.

Prerequisite: 1.0 credit from WRR103H1/ WRR104H1, WRR201H1, WRR203H1, WRR303H1, WRR305H1, WRR413H1, WRR414H1

Exclusion: INI407H1

WRR408Y1 - Special Topics in Writing and Rhetoric

Previous Course Number: INI408Y1

Seminars in special topics designed for students who are completing the Minor Program in Writing and Rhetoric.

Prerequisite: Permission of instructor.

WRR409H1 - Special Topics in Writing and Rhetoric

Previous Course Number: INI409H1

Hours: 36S

Seminars in special topics designed for students who are completing the Minor Program in Writing and Rhetoric.

Prerequisite: Completion of 9.0 credits

WRR410H1 - Special Topics in Writing and Rhetoric

Previous Course Number: INI410H1

Hours: 36S

Seminars in special topics designed for students who are completing the Minor Program in Writing and Rhetoric.

Prerequisite: Completion of 4.0 credits

WRR414H1 - Writing for Social Change

Previous Course Number: INI414H1

Hours: 36S

We will read and write a variety of texts focused on understanding and effecting social change. Students will be encouraged to engage with different theories of social change and an array of writing genres, ranging from journalism to critical theory to fiction. Ultimately, students will focus on one or several key social issues that they wish to write about for their final project.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

Other Innis College Courses

INI299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

INI399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

INI400Y1 - Independent Research

Under the supervision of a faculty member, students explore topics of their own choice and design their own research projects for a course not otherwise available within the Faculty. The student should submit a detailed proposal and a letter of support from the supervisor by June 1 for Y and F courses and by September 1 for S courses. Not eligible for CR/NCR option.

Prerequisite: Normally requires completion of 15.0 credits with 3.3 CGPA and permission of the Innis College Vice-Principal.

INI401H1 - Independent Research

Under the supervision of a faculty member, students explore topics of their own choice and design their own research projects for a course not otherwise available within the Faculty. The student should submit a detailed proposal and a letter of support from the supervisor by June 1 for Y and F courses and by September 1 for S courses. Not eligible for CR/NCR option.

Prerequisite: Normally requires completion of 15.0 credits with 3.3 CGPA and permission of the Innis College Vice-Principal.

INI402H1 - Independent Research

Under the supervision of a faculty member, students explore topics of their own choice and design their own research projects for a course not otherwise available within the Faculty. The student should submit a detailed proposal and a letter of support from the supervisor by June 1 for Y and F courses and by September 1 for S courses. Not eligible for CR/NCR option.

Prerequisite: Normally requires completion of 15.0 credits with 3.3 CGPA and permission of the Innis College Vice-Principal.

Italian

Faculty List

Professors Emeriti

R. Capozzi, MA, PhD
 M. Ciavolella, PhD
 K. Eisenbichler, MA, PhD (V)
 F. Guardiani, Dott in Lett, MA, PhD (SM)
 M. Kuitunen, Dott in Lett, MA, Phil M, Ufficiale Ord. Merit It. Rep.
 J.A. Molinaro, MA, PhD, FRSC
 D. Pietropaolo, MA, PhD (SM), Commend. Rep. It.
 O.L. Pugliese, MA, PhD (V)

Professor and Chair of the Department

L. Somigli, Dott in Lett, PhD

Professors

S. Bancheri, MA, PhD (University of Toronto Mississauga)
 E. Brilli, Dott in Lett, PhD
 M. Lettieri, MA, PhD (University of Toronto Mississauga)
 F. Pierno, Dott in Lett, DEA, Doctorat

Associate Professors

E. Morra, Dott in Lett, PhD
 A. Zambenedetti, Dott in Lingue e Lett Straniere, MA, PhD

Assistant Professors

L. Ingallinella, Dott in Filologia Mod, PhD
 A. Pesarini, Dott in Antr, MSc, PhD

Associate Professors Emeriti, Teaching Stream

B. Magliocchetti, MA (SM)
 M. Pasquarelli Clivio, MA, PhD (SM)

Associate Professor, Teaching Stream

M. Scarci, MA, PhD (V)

Assistant Professors, Teaching Stream

P. Frascà, MA, PhD
 A. Lanza, Dott in Storia, DEA, PhD

Senior Lecturers Emeritae

R. Longo Lavorato, MA, PhD (SM)
 A. Urbancic, B Ed, MA, PhD (V)

Introduction

To study Italian is not only to acquire a language, but also to study a rich literature and a many-sided culture which have played an important, and sometimes dominant, role in Western civilization. For Canadians, the Italian contribution bears a special significance: the vast influx of Italians has brought changes in our way of life and a living presence to reinforce traditional Italian influences, thus enriching the meaning of the term Canadian. Italian combines well with other modern languages and literatures, and other programs such as European Studies, Literary Studies, and Mediaeval and Renaissance Studies, but is by no means restricted to these. Students may choose from Specialist, Major and Minor programs in Italian Studies. Italian courses are offered for beginners as well as for students who may have prior knowledge or instruction in Italian. Oral practice is included in all language courses. Students well qualified in the Italian language may be excused from language courses in first year (please see the Undergraduate Coordinator). 300 and 400-level courses are available to qualified third and fourth-year students and may be taken concurrently. These courses offer a wide range of options in language, literature, linguistics, culture and cinema. There are courses in Italian literature, culture and cinema that are given in English and have no language requirement. In conjunction with Woodsworth College, ITA courses may be taken in Italy at the University of Siena during July and August. A number of bursaries are available. Students may apply to take their Third Year in Italy under the Study Abroad Program in conjunction with the Centre for International Experience (<https://internationalexperience.utoronto.ca/>).

Undergraduate Coordinator: 416-926-2338

Email: italian.undergrad@utoronto.ca

Enquiries: 100 St. Joseph St., Room 204 (416-926-2345)

Website: <https://italianstudies.utoronto.ca/>

Italian Programs

Italian Specialist (Arts Program) - ASSPE2524

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10.0 credits, including at least 1.0 credit at the 400-level)

1. The following language courses: [ITA100Y1](#), [ITA250Y1](#), [ITA350Y1](#), [ITA450H1](#)
2. An additional 1.0 ITA credit at the 200-level

3. 2.0 credits at the 300+ level in literature, including a 0.5 credit in each of the THREE periods of Italian literature:

Medieval / Renaissance: [ITA300H1/ ITA311H1/ ITA312H1/ ITA320H1/ ITA321H1/ ITA332H1/ ITA370H1/ ITA400H1/ ITA420H1/ ITA455H1](#)

Baroque / Enlightenment: [ITA301H1/ ITA348H1/ ITA390H1/ ITA420H1/ ITA455H1](#)

Modern / Contemporary: [ITA301H1/ ITA310H1/ ITA330H1/ ITA380H1/ ITA381H1/ ITA410H1/ ITA421H1/ ITA455H1](#)

4. One 0.5 credit from the following: [ITA360H1/ ITA363H1/ ITA364H1/ ITA431H1/ ITA432H1/ ITA433H1](#)
5. One 0.5 credit from the following: [ITA311H1/ ITA320H1/ ITA321H1/ ITA330H1/ ITA332H1/ ITA340H1/ ITA341H1/ ITA342H1/ ITA345H1/ ITA348H1/ ITA370H1/ ITA380H1/ ITA400H1/ ITA420H1/ ITA441H1/ ITA445H1](#)
6. 2.0 credits at the 300+ level with at least one 0.5 credit at the 400-level
7. [ITA495H1](#)

NOTE: No more than **2.0 credits** where the language of instruction is English may be counted towards the Specialist Program.

Italian Major (Arts Program) - ASMAJ2524

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7 full courses or their equivalent, including at least one half-course equivalent at the 400 level)

1. The following language courses: [ITA100Y1, ITA250Y1, ITA350Y1](#)
2. One additional 200-series ITA full course equivalent
3. One full course or equivalent at the 300+ level in literature
4. One half course from the following: [ITA360H1/ ITA363H1/ ITA364H1/ ITA431H1/ ITA432H1/ ITA433H1](#)
5. One half course from the following: [ITA311H1/ ITA320H1/ ITA321H1/ ITA330H1/ ITA332H1/ ITA340H1/ ITA341H1/ ITA342H1/ ITA345H1/ ITA348H1/ ITA370H1/ ITA380H1/ ITA400H1/ ITA420H1/ ITA441H1/ ITA445H1](#)
6. One additional 300+ series course of which at least one half course must be at the 400 level

Italian Culture and Communication Studies Minor (Arts Program) - ASMIN1245

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

4 full courses (or equivalent) including one full course equivalent from any of the following:

[ITA340H1/ ITA341H1/ ITA342H1/ ITA345H1/ ITA441H1/ ITA445H1](#) (Italian cinema courses)

[ITA360H1/ ITA363H1/ ITA364H1/ ITA431H1/ ITA432H1/ ITA433H1](#) (Italian linguistics courses)

[ITA356Y0/ ITA357Y0/ ITA358Y0/ ITA359Y0](#) (Italian culture courses)

Italian Minor (Arts Program) - ASMIN2524

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4 full courses or their equivalent)

Any 4 ITA courses (at least one full course equivalent must be a 300/400-level literature course)

Faculty of Arts & Science Language Citation

The Department of Italian Studies participates in the Faculty of Arts and Science's Language Citation initiative for Italian. Proficiency in Italian is an invaluable asset for those wishing to pursue a career in social work, business, applied science, government, law, medicine or education.

A knowledge of Italian complements undergraduate studies in other areas, such as music, fine art, literary studies, European history or political science, to name a few.

The Language Citation recognizes a significant level of achievement in language study with a high level of academic success. The Citation in Italian is available to students who, having completed a first-year language course in Italian (ITA100Y1) (or the equivalent prerequisite training), earn a grade of at least B- in a second-year language course (ITA250Y1) and in a third-year language course (ITA350Y1).

Students should note that, as explained in the [About Programs of Study](#) section of this Calendar, the Language Citation is not equivalent to an academic program and that enrolment in a program is not necessary in order to earn the recognition bestowed by the Citation.

Guidelines for students who wish to begin the study of the Italian language at the university level

[ITA100Y1](#) - Italian Language for Beginners – An introductory course for students with no previous

Italian Courses

ITA100Y1 - Italian Language for Beginners

Hours: 72S

An introduction to the main elements of the Italian language. The development of speaking, reading, and writing skills. Introduction to Italian culture and texts.

A questionnaire on students' knowledge of and background in Italian will be administered shortly before or during the first class.

Exclusion: Grade 11 and/or 12 Italian (U or M level) or previous experience or instruction in Italian.

Breadth Requirements: Creative and Cultural Representations (1)

ITA102Y0 - Practical Italian

Hours: 48L/24P

A course specifically designed for students who wish to take Italian as a breadth requirement. Emphasis will be given to basic aspects of communication in a functional

knowledge of the Italian language. Not open to students with grade 11 and/or 12 U or M Italian or with previous experience, exposure or instruction in Italian.

[ITA250Y1](#) - Intermediate Italian – The subsequent course for students who have completed ITA100Y1.

This course is also open to students who have completed Grade 11 and/or 12 Italian (U or M level) or with previous experience or instruction in Italian. For this group, the Department may conduct assessment to determine appropriate placement.

Self-placement is not allowed in the Department of Italian Studies. The Department reserves the right to place students in the language course appropriate to their level of language skill. In ITA100Y1 students will be asked to fill out a questionnaire on their knowledge of, past studies and background in Italian. The questionnaire will also be filled out by all other language students who do not have the proper prerequisite in all other languages. The Department may conduct assessment to determine appropriate placement.

context. This course cannot be used towards any Minor, Major or Specialist program in Italian. (Offered in Siena only)

Exclusion: 4U Italian or any previous university level Italian language course

Breadth Requirements: Creative and Cultural Representations (1)

ITA196H1 - Image and Text in Medieval and Renaissance Italian Culture

Hours: 24L

The course will explore various aspect of the interaction between literature and the visual arts in Italy from the Middle Ages to the end of the Renaissance. The focus will be on the intersection between the literary and visual modes of perception in the works of representative Italian authors from the Fourteenth to the Sixteenth Centuries. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

ITA197H1 - The Fine Art of Murder: Reading Detective Fiction

Hours: 24L

Since its inception in the Nineteenth century, detective fiction has been one of the most popular literary genres, proving adept at both entertaining and shining a critical light on social and political problems. This course will explore the many faces of detective fiction addressing questions such as: Why does crime hold such a fascination for modern audiences? What kind of pleasure do we derive from reading stories that often follow established conventions and rules? What do these novels about crime and punishment tell us about broader social and political issues? Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: VIC197H1

Breadth Requirements: Creative and Cultural Representations (1)

ITA198H1 - Machiavelli and Machiavellianism

Hours: 24L

An examination of Machiavelli's political doctrine in *The Prince* and the development of his ideas in politics, ethics and the arts. Special attention will be paid to the enduring relevance of his legacy in the modern world. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: VIC142H1

Breadth Requirements: Creative and Cultural Representations (1)

JCI199H1 - Italians in Canada: Histories, Journeys, Struggles, Successes

Hours: 24L

This course explores the presence of people from the Italian peninsula in what is now known as Canada. The course begins with discussions on Giovanni Caboto's and other explorers' journeys to then focus on contemporary Italian-Canadian communities. This course provides students with the critical tools necessary to understand various historical, linguistic, culinary, spiritual, political, and creative elements of Italian-Canadian identity and life. Students of both Italian and non-Italian heritage are most welcome in this course, which is taught in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ITA199H1 - Italian Fascism and Global Responses: The Dark Side of Italianità

Hours: 24L

After WWI, Italian society faced a political, economic, and moral crisis that resulted in the rise of fascism. Using diverse sources (media, literary texts, movies, architecture and design), this course explores various reactions in Italy and abroad to the rise of Mussolini and the totalitarian State. Why did common people, intellectuals, politicians, and business and community leaders around the globe succumb to the seduction of fascism? How did other people denounce fascist violence? After an introduction to Italian fascism, the course will consider global reactions to Italian fascism and diverse responses in Italian communities abroad (e.g. Canada, USA, Argentina). Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

ITA200H1 - Major Italian Authors in Translation: from Dante to Tasso

Hours: 24L

The course will focus on authors from the Middle Ages to the Renaissance who had a defining influence on Western literature, such as Dante, Petrarca, Boccaccio, Machiavelli, Ariosto and Tasso. This course includes a component designed to enhance students' research experience. (Given in English)

Exclusion: ITA300H1

Breadth Requirements: Creative and Cultural Representations (1)

ITA201H1 - Major Italian Authors in Translation: from Marino to Calvino

Hours: 24L

The course will focus on authors from the Baroque to the Twentieth Century who had a defining influence on Western literature, such as Marino, Goldoni, Manzoni, Pirandello, Calvino. This course includes a component designed to enhance students' research experience. (Given in English)

Exclusion: ITA301H1

Breadth Requirements: Creative and Cultural Representations (1)

ITA210H1 - “The Most Beautiful Language”: Italian between Past, Present and Future Challenges

Hours: 24L

In his recent book, titled “The most beautiful language” (*La più bella del mondo*, Turin: Einaudi, 2018), Stefano Jossa eulogizes Italian, arguing that it should be learned by many. However, what do we really know about it? The course will try to answer some crucial questions: How was the Italian language born and developed? What are its main characteristics? How are the many dialects perceived in Italy today? What status do they have vis-à-vis the national language? What about the expansion of English? Are the dialects disappearing or still surviving? How is Italian language facing the new social questions (gender, diversity, etc.)? How are social media changing the way the Italian language is written and spoken?

Breadth Requirements: Thought, Belief and Behaviour (2)

ITA233H1 - Italian-Canadian Literature

Hours: 24L

The course will explore how notions of identity and (self)-representation emerge in literature by Canadian writers of Italian descent, illustrating the critical evolution of the immigrant journey from its historical experience to its current condition. This course includes a component designed to enhance students’ research experience. (Given in English)

Breadth Requirements: Society and its Institutions (3)

ITA240Y1 - History of Italian Cinema

Hours: 48L/72P

This course surveys the history of Italian cinema and the sociopolitical circumstances surrounding the film industry, from its early days to the present, while also introducing the students to methods of analysis and research appropriate to the field. Emphasis will be placed on films from the silent era to the 1960s, and from the 1960s to the present. This course includes a component designed to introduce students to methods of scholarly research appropriate to the field.

The course is given in English and all films shown have English subtitles.

Breadth Requirements: Creative and Cultural Representations (1)

ITA250Y1 - Intermediate Italian

Hours: 72S

Grammar review, readings of Italian authors and oral practice to enhance comprehension and expressive skills.

Students without the prerequisite will be asked to fill out a questionnaire on their knowledge of and background in Italian.

Prerequisite: ITA100Y1/ ITA151Y1; Grade 11 and/or 12 Italian (U or M level), or previous experience or instruction in Italian, or permission of the Department.

Exclusion: ITA251Y1

Breadth Requirements: Creative and Cultural Representations (1)

JCI250H1 - Italian Canadian Communities

Hours: 24S

This course examines the past and present settlement patterns of those of Italian descent in Canada, in rural areas and cities, including increasing suburbanization. Students will address issues such as work and employment and political participation. Challenges and opportunities will be examined, with respect to issues such as migration, community-building, belonging, and discrimination.

Breadth Requirements: Society and its Institutions (3)

ITA299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities....> Not eligible for CR/NCR option.

ITA300H1 - History of Italian Literature: Middle Ages and Renaissance

Hours: 24L

This course provides a chronological, comprehensive view of Italian literature and its major authors and trends, in their socio-historical contexts from its beginnings to the Renaissance. This course includes a component designed to enhance students' research experience.

Prerequisite: [ITA250Y1/ ITA251Y1](#)

Exclusion: [ITA200H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

ITA301H1 - History of Italian Literature: Baroque to Contemporary

Hours: 24L

This course provides a chronological, comprehensive view of Italian literature and its major authors and trends, in their socio-historical contexts from the Baroque period to the present day. This course includes a component designed to enhance students' research experience.

Prerequisite: [ITA250Y1/ ITA251Y1](#)

Exclusion: [ITA201H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

ITA310H1 - The 'Journey' in 19th Century Italian Literature

Hours: 24L

The course illustrates Italy's contribution to the history of the trope during a time when countries became increasingly interdependent and conscious of each other's cultures. Through literary and social analysis the course traces the most vital aspects of the journey motif. This course includes a component designed to enhance students' research experience. (Given in English)

Breadth Requirements: Creative and Cultural Representations (1)

ITA311H1 - Mediaeval Italian Literature in Translation: Dante

Hours: 24L

A study of the *Vita Nuova* and of the *Divine Comedy* within the literary and cultural contexts of the Middle Ages. This course includes a component designed to enhance students' research experience. (Given in English)

Exclusion: [ITA320H1/ ITA321H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

ITA312H1 - Mediaeval Italian Literature in Translation: Petrarch and Boccaccio

Hours: 24L

A study of Petrarch's *Canzoniere* and of Boccaccio's *Decameron* in relation to later Middle Ages. This course includes a component designed to enhance students' research experience. (Given in English)

Breadth Requirements: Creative and Cultural Representations (1)

ITA314H1 - Italian Design: Fashion, Artistry, Genius

Hours: 24S

"Made in Italy" is a global standard for creativity and excellence in fashion, architecture, and industrial design. This course will explore how art, imagination, and craft have intersected in different areas of Italian culture over time. Based on an individual instructor's area of expertise, themes explored may include studies of the Italian fashion industry, food culture, commercial art, and industrial design. Primary materials will include artworks, literary texts, material objects, and mixed media that demonstrate the importance of design culture in Italy and the impact of Italian design culture in the world. This course includes a component designed to enhance students' research experience.

Prerequisite: 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ITA315H1 - Sex and Gender in Contemporary Italy

Hours: 24S

This course will focus on theoretical and cultural productions that deal with issues of sexuality and gender in (contemporary) Italy. Based on an individual instructor's area of expertise, themes explored may include feminism

and women's rights, sexual liberation and LGBTQ+ rights, Queer-of-Colour critique, and other topics within the study of sexual and gender diversity. Primary materials will include manifestos, theoretical essays, novels, short stories, and films that deal with gender and sexual diversity in the Italian-speaking world and from a transnational perspective. Linguistic issues will also be discussed. This course includes a component designed to enhance students' research experience.

Prerequisite: 4.0 credits

Breadth Requirements: Society and its Institutions (3)

ITA320H1 - Dante: Vita Nuova and Divina Commedia (Inferno)

Hours: 24L

Dante's poetry and great Christian epic of conversion explode with the passions of this world. This course focuses on intertextual and rhetorical strategies used to fashion the author's complex vision of contemporary society within the framework of providential history. This course includes a component designed to enhance students' research experience.

Prerequisite: [ITA250Y1/ ITA251Y1](#)

Exclusion: [ITA311H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

ITA321H1 - Dante: Divina Commedia (Purgatorio and Paradiso)

Hours: 24L

A continuation of [ITA320H1](#), this course examines the *Purgatorio* and the *Paradiso* in the context of Dante's vision of contemporary society. This course includes a component designed to enhance students' research experience.

Prerequisite: [ITA320H1](#)

Exclusion: [ITA311H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

ITA332H1 - Love in the Renaissance

Hours: 24L

An exploration of the theme of love in the Renaissance and its development in a variety of literary forms. Analysis of treatises, poetry, short stories and letters with the purpose of examining intertextuality and the practice of

imitation, as well as the social and political aspects of love, such as marriage, women's position in society, pornography, homosexuality and other issues. This course includes a component designed to enhance students' research experience. (Given in English)

Breadth Requirements: Creative and Cultural Representations (1)

ITA333H1 - Identity Politics in Renaissance Italy

Hours: 24L

This course explores the intersection of religion, gender, and race in the literature and culture of Renaissance Italy. Between 1350 and 1650, constructs of identity based on these categorizations consolidated into cultural norms that influenced modern colonialism and contemporary nationalism. In this course, we will investigate how texts and ideas that we normally place at the core of the myth of the Italian Renaissance were always in dialogue with fantasies of power, exceptionalism, and orientalism. We will pair close reading of a wide range of literary genres (romance, dramaturgy, fiction, travelogues, political writing) with visual artifacts and archival materials. Authors to be studied include Boccaccio, Petrarch, and Ariosto.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ITA340H1 - Italian Neorealist Cinema

Hours: 24L/36P

The focus of this course is the films of Italian Neorealism, one of the most influential, artistic, and intellectual movements in the history of world cinema. While emphasis will be placed primarily on the work of Roberto Rossellini, Vittorio De Sica, and Luchino Visconti, the course will also offer a detailed discussion of the historical context and of the sociopolitical issues of postwar Italy. This course includes a component designed to enhance students' research experience. (Given in English)

Recommended Preparation: [ITA240Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

ITA341H1 - Gender and Genre in Italian Cinema

Hours: 24L/36P

The course looks at Italian cinema from the perspective of gender and genre studies. While the focus will be primarily on film, the course will also engage with different media and discuss how these have informed and influenced Italian notions of masculinity and femininity throughout the Twentieth Century. The emphasis on genre will provide the structure to organize a discourse that will embrace very diverse and multifaceted texts, and will enable students to develop their analytical and critical skills in the field. This course includes a component designed to enhance students' research experience. (Given in English)

Breadth Requirements: Creative and Cultural Representations (1)

ITA342H1 - Popular Italian Cinema

Hours: 24L

This course discusses the notion of the *Popular* as applied to Italian cinema. By focusing on the number of films that have appropriated popular international genres such as *Spaghetti Westerns*, *Horror*, and *Poliziotteschi*, this course will discuss Italian cinema in a global context, drawing parallels and comparisons with other national industries. Students will gain a broader understanding of Italian film culture, and will apply their critical and research skills to a wide range of texts. This course includes a component designed to enhance students' research experience. (Given in English)

Breadth Requirements: Creative and Cultural Representations (1)

ITA345H1 - Cinema of the Italian Diasporas

Hours: 24L/36P

This course will examine how several filmmakers of Italian descent engage with the representation of their diasporic identity. Particular emphasis will be placed on Italian-Canadian and Italian-American cinema, as well as on Italian cineastes working in Argentina, Brazil, and Australia. The course will analyze films that span from silent to contemporary, from the formation of the stereotypical images to the re-appropriation of archetypes on the part of "ethnic" filmmakers. This course includes a component designed to enhance students' research experience. (Given in English)

Breadth Requirements: Creative and Cultural Representations (1)

ITA348H1 - Mass Media in Italy: The European Context

Hours: 24L

This course investigates Italy's pivotal role in epochal cultural changes: from manuscript to print and from print to computers. The impacts of Print Technology in the Renaissance and of Electronic Technology from Marconi onward are thoroughly analyzed. This course includes a component designed to enhance students' research experience. (Given in English)

Breadth Requirements: Creative and Cultural Representations (1)

ITA349H1 - Black Italian Cultural Production

Hours: 24L

This interdisciplinary course will explore the landscape of cultural production made by Italians of African descent. The course provides students with relevant historical and sociological background necessary to understand entanglements of race, gender, identity, and citizenship occurring in contemporary Italy. The analysis of cultural production includes literature, music, cinema, television, visual arts and fashion. Students read not only academic material but also short stories, novels and poems; listening to and analyzing rap, trap and hip-hop tracks; watching online exhibitions and documentaries; examining Netflix series and Instagram pages. When possible, the course will also host Italian artists and activists engaging in conversations about their work.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ITA350Y1 - Language Practice

Hours: 24P/48S

For students who have completed [ITA250Y1/ ITA251Y1](#). Discussion of problems of grammar, style, and composition. Language analysis based on readings of Italian authors. One hour a week of oral practice. This course includes a component designed to enhance students' research experience.

Students without the prerequisite(s) will be asked to fill out a questionnaire on their knowledge of and background in Italian.

Prerequisite: [ITA250Y1/ ITA251Y1](#)

Exclusion: [ITA351Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

JCI350H1 - Italian Canadian Culture and Identity

Hours: 24S

This course examines the contributions of Canadians of Italian descent to arts, culture, identity and heritage in Canada, with attention to the diversity of the community with respect to issues such as language, religion, gender, class, sexuality, etc. A core concept addressed by the course is immigration, whether from the experiences of migrants themselves or later generations.

Recommended Preparation: [JCI250H1/ ITA233H1](#)

Breadth Requirements: Society and its Institutions (3)

ITA358Y0 - Modern Italian Culture

Hours: 24L/24T

Analysis of a selection of philosophical, artistic, musical, and literary works from the age of the Baroque to the present. The main topics of discussion include: Romanticism, Italian unification, theatre, opera, Futurism, fascism, Neorealism, regional differences, and industrialization. Field trips and viewing of movies included. This course includes a component designed to enhance students' research experience. (Offered in Siena only)

ITA358Y0: This course is taught in English and is open to students from other disciplines.

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

ITA359Y0 - Modern Italian Culture

Hours: 24L/24T

Analysis of a selection of philosophical, artistic, musical, and literary works from the age of the Baroque to the present. The main topics of discussion include: Romanticism, Italian unification, theatre, opera, Futurism, fascism, Neorealism, regional differences, and industrialization. Field trips and viewing of movies included. This course includes a component designed to enhance students' research experience. (Offered in Siena only)

ITA359Y0: Students who wish to petition the Department for credit towards a Specialist or Major in Italian will be required to do the readings in Italian.

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

ITA360H1 - Italian Linguistics

Hours: 24L

For students having a knowledge of Italian and/or Italian dialects but no background in linguistics. Concepts of general linguistics. Italy as a linguistic entity. The structure of contemporary Italian, with special regard to its sound system and grammatical categories. This course includes a component designed to enhance students' research experience. (Given in English)

Prerequisite: [ITA250Y1/ ITA251Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

ITA363H1 - Italian Sociolinguistics

Hours: 24L

Starting with a survey of the sociolinguistic situation in Italy before Unification, this course deals with the complex relationship between regional languages and dialects on the one hand and Common Italian on the other. The recent rise of regional variants of Italian and its impact on the dialects are also discussed. This course includes a component designed to enhance students' research experience.

Prerequisite: [ITA250Y1/ ITA251Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

ITA364H1 - Italian and Social Media

Hours: 24L

The aim of this course is to examine how media can influence the evolution of language in contemporary Italy. The first part of this course has an historical goal and will be devoted to the role played by 'traditional' media (television, radio, newspapers) in the linguistic history of Italian. The second part will be devoted to the impact that social media is having on Italian. Empirical quantitative research will be based on the most important databases for contemporary Italian.

Prerequisite: ITA250Y1/ ITA251Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

ITA367H1 - Topics in Italian Linguistics

Hours: 2L

An open course that explores specific aspects of Italian Linguistics. This course includes a component designed to enhance students' research experience. (Given in English)

Prerequisite: ITA250Y1/ ITA251Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

ITA378H1 - Topics in Italian Studies

Hours: 24L

An open course that explores specific aspects of Italian Studies. This course includes a component designed to enhance students' research experience. (Given in English)

Breadth Requirements: Creative and Cultural Representations (1)

ITA379H1 - Topics in Italian Studies

Hours: 24L

An open course that explores specific aspects of Italian Studies. This course includes a component designed to enhance students' research experience.

Prerequisite: ITA250Y1/ ITA251Y1/ ITA252Y1

Breadth Requirements: Creative and Cultural Representations (1)

ITA380H1 - The Prose of the World: The Modern Italian Novel and the Realist Tradition

Hours: 24L

This course examines the development of modern Italian novel by taking as its focus the question of the relationship between narrative and the world. The course analyzes some of the major figures of Nineteenth-Century realist tradition such as Manzoni and Verga, as well as the resurgence of realist narrative in the post-World War II period with authors such as Pavese and Calvino. This

course includes a component designed to enhance students' research experience. (Given in English)

Breadth Requirements: Creative and Cultural Representations (1)

ITA390H1 - The Commedia dell'Arte

Hours: 24L

A study of the conventions of the Commedia dell'Arte tradition in the context of its performance history from the late Renaissance to the present. Issues examined include acting techniques, improvisation, masks and costumes, iconography and adaptation to film. This course includes a component designed to enhance students' research experience. (Given in English)

Breadth Requirements: Creative and Cultural Representations (1)

ITA395Y0 - Special Topics in Italian Studies

Hours: 48S

The area of concentration will depend upon the instructor teaching the course in any given year. (Offered only during the summer through the Summer Abroad Program.) Not available for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

ITA398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

ITA398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

ITA399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

ITA400H1 - Machiavelli

Hours: 24S

An intensive study of Machiavelli's major works in English translation, including his political treatises (*The Prince*, excerpts from *The Discourses*), plays (*The Mandrake Root*), letters, and short story (*Belfagor*), in the context of Renaissance Florence, the history of Machiavelli criticism, and modern ethical debates. This course includes a component designed to enhance students' research experience. (Given in English)

Prerequisite: Completion of 10.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

ITA410H1 - Masterpieces of Modern Drama

Hours: 24L

This course will study works by the major Italian playwrights of the Twentieth Century, including two of Italy's Literature Nobel Prize winners, Luigi Pirandello and Dario Fo. Particular attention will be paid to the relationship between individual works and broader literary and cultural movements, as well as to issues regarding staging and production of the plays under discussion. The course includes a component designed to enhance students' research experience.

Prerequisite: [ITA250Y1](#)/ [ITA251Y1](#), and at least 0.5 credit in ITA literature courses at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

ITA420H1 - Spinning a Tale: The Italian Short Story from Boccaccio to Basile

Hours: 24L

The short story genre and its development from the Middle Ages to the Baroque. In addition to Boccaccio's tales, included are some of the most famous stories of

Western literature, which later inspired masterpieces in all art forms, such as *Romeo and Juliet*, *Othello* and *Puss in Boots*. This course includes a component designed to enhance students' research experience.

Prerequisite: [ITA250Y1](#)/ [ITA251Y1](#), and at least one 0.5 credit ITA literature course at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

ITA421H1 - Spinning a Tale: The Italian Short Story after 1800

Hours: 24L

Focusing on short stories by some of the most important authors of the Twentieth Century, such as Pirandello and Calvino, this course will provide an introduction to the major tendencies of contemporary Italian literature. This course includes a component designed to enhance students' research experience.

Prerequisite: [ITA250Y1](#)/ [ITA251Y1](#), and at least one 0.5 credit ITA literature course at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

ITA425H1 - Special Topics in Italian Studies

Hours: 24L

A course on specific topics in Italian Studies, designed for advanced students. This course includes a component designed to enhance students' research experience. (Given in English)

Prerequisite: Completion of 7.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

ITA426H1 - Special Topics in Italian Studies

Hours: 24L

A course on specific topics in Italian Studies, designed for advanced students. This course includes a component designed to enhance students' research experience.

Prerequisite: [ITA250Y1](#)/ [ITA251Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

ITA427H1 - Special Topics in Italian Linguistics

Hours: 24L

A course on specific topics in Italian Linguistics, designed for advanced students. This course includes a component designed to enhance students' research experience.

Prerequisite: [ITA250Y1/ ITA251Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

ITA431H1 - History of Italian Language I- from Middle ages to Cinquecento

Hours: 24L

An historical overview of the Italian language from the first Medieval documents to the texts of the *Questione della Lingua*. It deals with historical grammar and the analyses of early Italian texts. An introduction to notions of linguistic statistics. Empirical quantitative methods are based on the three most important databases of old Italian: TLIO, OVI, BIZ. This course includes a component designed to enhance students' research experience.

Prerequisite: [ITA250Y1/ ITA251Y1](#)

Exclusion: [ITA430H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

ITA432H1 - History of Italian Language II- from Cinquecento to Contemporary

Hours: 24L

The evolution of the Italian Language from the *Questione della lingua* to Contemporary issues pertaining to reading of literary and non-literary documents and analyses of the social, political and economic conditions which influenced Early Modern, Modern and Contemporary Italian. Introduction to techniques pertaining to notions of linguistic statistics. Quantitative methods will be based on the three most important databases for the Early modern, Modern and Contemporary Italian: *Vocabolario della Crusca* (online), BaDIP and BIZ. This course includes a component designed to enhance students' research experience.

Prerequisite: [ITA250Y1/ ITA251Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

ITA433H1 - Italian Language and Italian Dialects in Toronto

Hours: 24L

Through an historical overview of Italian immigration in Toronto, the role of Italian and Italian dialects in the city will be examined. As part of the topic studied in course, students will contribute to the website of the OIM by collecting varied forms of empirical linguistic evidence.

Prerequisite: [ITA250Y1/ ITA251Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

ITA441H1 - Italian Cinematic Adaptation

Hours: 24L

An analysis of the process of adaptation in an exploration of the ideological and narratological perspectives as well as the stylistic elements of literary and cinematic discourse. Selections include novels by Verga, Tomasi di Lampedusa, Moravia, Bassani and their filmic adaptations by directors such as Visconti, De Sica, Bertolucci. This course includes a component designed to enhance students' research experience. (Given in English)

Recommended Preparation: One of: [ITA240Y1/ ITA340H1/ ITA341H1/ ITA347H1](#). Knowledge of Italian recommended

Breadth Requirements: Creative and Cultural Representations (1)

ITA445H1 - Literature of the Italian Diasporas

Hours: 24L

This course examines works by writers of Italian descent, focusing on themes linked to the second-generation experience, such as intergenerational conflict, gender relations, the return journey, and the quest for identity. The comparative approach of this investigation will bring within the same framework the diasporic literatures of Canada, the United States, Argentina, Brazil, Australia, and of other countries. (Texts available in English and in their original language). This course includes a component designed to enhance students' research experience. (Given in English)

Recommended Preparation: [ITA233H1/ ITA345H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

ITA450H1 - Advanced Italian

Hours: 36S

This advanced-level course is designed to provide students with further study of the Italian language and culture with emphasis on varied methods of expression. This course will improve students' oral and written communication skills.

Prerequisite: [ITA350Y1](#) / [ITA351Y1](#)

Exclusion: [ITA451H1](#)/ [ITA452H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

ITA453H1 - At the Movies: History and Practice of Italian Film Criticism

Hours: 24S

This course will provide students with a blend of history, methodology, and practice of Italian film criticism. The first module will survey the primary trends and methodological developments in the long history of Italian film criticism, from the days of silent cinema to the most recent changes caused by online platforming. The second module will offer students the opportunity to write their own criticism, and to collaborate with Italian online film magazines. Given in Italian.

Prerequisite: At least 1.0 credit from [ITA240Y1](#), [ITA340H1](#), [ITA341H1](#), or CIN courses, ([ITA350Y1](#)/[ITA351Y1](#))

Breadth Requirements: Creative and Cultural Representations (1)

ITA455H1 - Women Writers in Italy

Hours: 24L

The course will focus on the writings of women in different periods of Italian history. Spanning a variety of genres, from the novel to autobiography, from poetry to essayism, the course will discuss various aspects of the debate regarding the changing roles of women in society. This course includes a component designed to enhance students' research experience.

Prerequisite: [ITA250Y1](#)/ [ITA251Y1](#), and at least one 0.5 credit ITA literature course at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

ITA460Y1 - Internship in Italian

Hours: 48P

Opportunity to apply acquired knowledge in a work placement environment. The placement will take place in local community organizations, Private Business Associations and local media.

Prerequisite: [ITA350Y1](#)/ [ITA351Y1](#)/ [ITA352Y1](#) or [ITA371Y1](#)

Corequisite: Must be enrolled in 4th year. 3.0 CGPA required. Departmental interview.

ITA489H1 - Independent Studies

An opportunity to pursue at the 400-level an independent course of study not otherwise available. A written proposal, co-signed by the instructor, must be submitted on the appropriate proposal form for approval by the Department of Italian Studies. Application deadline: April 30 for F courses, November 30 for S courses.

Prerequisite: Permission of Department

ITA490Y1 - Independent Studies

In exceptional circumstances, students may request to pursue at the 400-level an independent course of study not otherwise available. A written proposal, co-signed by the instructor, must be submitted on the appropriate proposal form for approval by the Department of Italian Studies. Application deadline April 30.

Prerequisite: Permission of Department

ITA495H1 - Directed Research

Based on a professor's research project currently in progress, this course will enable an undergraduate student to play a useful role in the project while receiving concrete training in research. This course is mandatory for all students enrolled in the specialist's program.

Prerequisite: Permission of Department

ITA496H1 - Research Methods

This course, linked to the instructor's research project, will provide training in a variety of research methods. This course includes a component designed to enhance students' research experience.

Prerequisite: Permission of Department

Centre for Jewish Studies

Faculty List

Director

Anna Shternshis (Department for Germanic Languages and Literatures and Centre for Diaspora and Transnational Studies) - Al and Malka Green Professor in Yiddish Studies

Graduate Coordinator

Naomi Seidman (Department for the Study of Religion and Centre for Diaspora and Transnational Studies) – Chancellor Jackman Professor in the Arts

Undergraduate Coordinator

Yigal Nizri (Department for the Study of Religion)

TENURE STREAM

Professors

Abigail Bakan (OISE, Department of Social Justice Education)
 Amir Harrak (Department of Near and Middle Eastern Civilizations)
 Andrea Most (Department of English)
 Anna Shternshis (Department for Germanic Languages and Literatures and Centre for Diaspora and Transnational Studies) - Al and Malka Green Professor in Yiddish Studies
 Arthur Ripstein (Faculty of Law and Department of Philosophy) – Howard Beck QC Chair in Law
 Caryl Clark (Faculty of Music)
 Clifford Orwin (Department of Political Science)
 Daniel Silver (Department of Sociology, UTSC)
 David Novak (Department of Philosophy and Fellow of St. Michael's College) – J. Richard and Dorothy Shiff Chair in Jewish Studies (now Professor and Shiff Chair Emeritus)
 Doris Bergen (Department of History) – Chancellor Rose and Ray Wolfe Professor of Holocaust Studies
 Esther Geva (Department of Psychology)
 Harold Troper (OISE Department of Curriculum Teaching and Learning) (now Professor Emeritus)
 Harry Fox (Department for the Study of Religion and Department of Near and Middle Eastern Civilizations)
 Ivan Kalmar (Department of Anthropology)
 James Retallack (Department of History)
 Jeremy Schipper (Department for the Study of Religion and Department of Near and Middle Eastern Civilizations)

John Kloppenborg (Department for the Study of Religion)
 Joseph M. Bryant (Department of Sociology)
 Judith Newman (Status-Only, Department for the Study of Religion and Emmanuel College, Victoria University)
 Karen Weisman (Department of English)
 Kenneth Green (Department for the Study of Religion)
 Leonid Livak (Department of Slavic Languages and Literatures) – Department Chair
 Lorraine Weinrib (Faculty of Law) – Professor Emerita
 Louis Kaplan (Department of Visual Studies UTM)
 Lynne Viola (Department of History) - Professor Emerita
 Mark D. Meyerson (Department of History and Centre for Medieval Studies)
 Maria Subtelny (Department of Near and Middle Eastern Civilizations)
 Marsha Hewitt (Trinity College Faculty of Divinity)
 Michael Chazan (Department of Anthropology)
 Michael Rosenthal (Department of Philosophy and Anne Tanenbaum Centre for Jewish Studies) – Grafstein Professor of Jewish Philosophy
 Naomi Seidman (Department for the Study of Religion and Centre for Diaspora and Transnational Studies) – Chancellor Jackman Professor in the Arts
 Rebecca Comay (Department of Philosophy and Centre for Comparative Literature)
 Robert Brym (Department of Sociology)
 Robert Gibbs (Department for the Study of Religion and Department of Philosophy)
 Robert Holmstedt (Department of Near and Middle Eastern Civilizations)
 Robin Elliot (Faculty of Music) – Jean A. Chalmers Chair in Canadian Music
 Ron Levi (Munk School of Global Affairs & Public Policy, and Department of Sociology)
 Ronald Beiner (Department of Political Science) – Professor Emeritus of Political Science
 Ronald J. Leprohon (Department of Near and Middle Eastern Civilizations) – Professor Emeritus
 Ronit Dinovitzer (Department of Sociology)
 Sarianna Metso (Department of Historical Studies, UTM)
 Simon Coleman (Department for the Study of Religion, cross-appointed to Anthropology) – Associate Chair
 Steven Vande Moortele (Faculty of Music)
 Susan Solomon (Department of Political Science) – Professor Emerita
 Timothy Harris (Department of Near and Middle Eastern Civilizations)
 Walid Saleh (Department for the Study of Religion and Department of Near and Middle Eastern Civilizations)
 Willi Goetschel (Department of Philosophy and Department of Germanic Languages and Literatures)

Associate Professors

Adam S. Cohen (Department of Art History)
 Alejandro I. Paz (Department of Anthropology)
 Ann Komaromi (Centre for Comparative Literature)
 Daphna Heller (Department of Linguistics)
 Jill Ross (Centre for Comparative Literature)
 John Marshall (Department for the Study of Religion)
 Katherine Blouin (Department of History)
 Lauren Bialystok (Department of Social Justice Education, Center for Ethics)
 Mitchell Hoffman (Rotman School of Management and Department of Economics)
 Nicholas Stang (Department of Philosophy)
 Piotr J. Wrobel (Department of History) - Konstanty Reynert Chair of Polish Studies
 Rebecca Wittmann (Department of Historical Studies, UTM) – Department Chair
 Ronald Charles (Department for the Study of Religion)
 Sherry Denise Lee (Faculty of Music)
 Tirzah Meacham (Department of Near and Middle Eastern Civilizations)
 Yiftach Fehige (Institute for the History and Philosophy of Science and Technology)

Assistant Professors

Max Mishler (Department of History)
 Tanhum Yoreh (School of the Environment)

TEACHING STREAMProfessor, Teaching Stream

Robert Austin (Centre for European, Russian and Eurasian Studies)

Associate Professors, Teaching Stream

Renan Levine (Department of Political Science UTSC)
 Sol Goldberg (Department for the Study of Religion)
 Yigal Nizri (Department for the Study of Religion)

CLINICAL FACULTYAssociate Professor

Ayelet Kuper (Temerty Faculty of Medicine, Department of Medicine)

LIBRARIAN

Nadav Sharon (Judaica Librarian at the Thomas Fisher Rare Book Library)

Our undergraduate program provides students with a comprehensive education in Jewish Studies, a field that aims to situate the cultural, social, and economic diversity of the Jews and their faith within broader cultural contexts. Students who take our courses are trained in various methodological and disciplinary approaches across historical periods, geographical regions, textual corpora, and literary genres. Consequently, our students are pursuing education in Jewish history (ancient, medieval, modern, and contemporary), Jewish literary and artistic creativity, and Jewish languages (mainly Modern Hebrew, Biblical Hebrew, and Yiddish) but also about Judaism, Jewish thought, theology, philosophy, mysticism, and modern Israel.

The program is interdisciplinary, each student can pick and choose courses that broaden their disciplinary knowledge. The program provides intensive training in the historical, religious, cultural, and political experience of Jewish communities in their diverse civilizational contexts. A primary objective of our three undergraduate programs in Jewish studies has been to provide students with forward-thinking tools to shape their interaction with and understanding of questions through Jewish prisms while at the same time encouraging them to think with the potentialities found in the Jewish historical experience. We teach students how to use a variety of methodologies to explore the experiences of Jews through interdisciplinarity, transnationally, historically, and contemporarily.

We offer the following pathways in Jewish Studies:

- Jewish Philosophy and Thought
- Jewish History
- Jewish Visual Art and Archeology
- Jewish Literature and Culture
- Origins of Judaism/Hebrew Bible Studies
- German Jewish Studies
- Antisemitism Studies
- Jewish Christian Encounters
- Yiddish Studies
- Modern Hebrew Culture
- Israel Studies
- Holocaust and post-Holocaust Studies
- European Jewish Studies
- Jewish Environmentalism
- Jewish-Muslim Relations
- Sephardi and Middle Eastern Jewish Studies
- Gender, Women, Queer and Sexuality and Jewish Studies

For more information, we encourage students to visit our website and contact us at any time by email or phone:

Website: www.jewishstudies.utoronto.ca

Email: cjs.events@utoronto.ca

Phone: 416-978-1624

Introduction

The Anne Tanenbaum Centre for Jewish Studies offers a Specialist in Jewish Studies, a Major in Jewish Studies, and a Minor in Jewish Studies.

Centre for Jewish Studies Programs

Jewish Studies Specialist (Arts Program) - ASSPE0385

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10.0 credits, including 4.0 credits at the 300+ level, of which 1.0 credit must be at the 400-level)

1. [CJS200H1](#)/ [CJS201H1](#) (See Note)
2. 1.0 credit at the 400-level; fulfilled by any 400-level courses listed in the [Centre for Jewish Studies Undergraduate Course Handbook](#).
3. 3.0 credits in Hebrew or Yiddish:

Hebrew language courses: [MHB155H1](#)/ [MHB156H1](#)/ [MHB255H1](#)/ [MHB256H1](#)/ [MHB355H1](#)/ [MHB356H1](#)/ [NML155H1](#)/ [NML156H1](#)/ [NML255H1](#)/ [NML256H1](#)/ [NML355H1](#)/ [NML356H1](#)

Yiddish language courses: [GER260Y1](#)/ [GER261H1](#)/ [GER262H1](#)/ [GER360H1](#)/ [GER460H1](#)/ [GER463Y1](#).

Students entering the program with proof of requisite linguistic proficiency in Aramaic, Hebrew, Yiddish will choose any 3.0 credits in an area of study (see above) in addition to the regular requirements described in section 4. Other languages are accepted with special permission of the Undergraduate Director.

4. 5.0 credits in any of the four areas of Jewish Studies. All courses in the [Centre for Jewish Studies Undergraduate Course Handbook](#) count towards this requirement.
5. Note: From section 3 and 4, at least 4.0 credits at the 300+ level.
6. [DTS300H1](#) or a 0.5 credit to satisfy the Quantitative Reasoning competency of the program, to be chosen from courses in the [Centre for Jewish Studies Undergraduate Course Handbook](#) developing this competency. If none is available, a 0.5 credit from Breadth Requirement Category #5: The Physical & Mathematical Universe, or a 0.5 credit approved by the Undergraduate Director.

Note: There are no specific first-year requirements; however, first-year students are welcome to take [CJS200H1](#), [CJS201H1](#), Hebrew Language courses ([MHB155H1](#) and [MHB156H1](#)) and Yiddish ([GER260Y1](#) or [GER261H1](#) and [GER262H1](#)), which count towards the Jewish Studies Specialist.

Jewish Studies Major (Arts Program) - ASMAJ0385

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(6.5 credits, including 2.0 credits at the 300+ level, of which a 0.5 credit must be at the 400-level)

1. [CJS200H1](#)/ [CJS201H1](#) (See Note)
2. 0.5 credits at the 400-level; fulfilled by any 400-level courses listed in the [Centre for Jewish Studies Undergraduate Course Handbook](#).
3. 5.0 credits in any of the four areas of Jewish Studies. All courses in the [Centre for Jewish Studies Undergraduate Course Handbook](#) count towards this requirement. At least 2.0 out of the 5.0 credits must be at the 300+ level.
4. [DTS300H1](#) or a 0.5 credit to satisfy the Quantitative Reasoning competency of the program, to be chosen from courses in the [Centre for Jewish Studies Undergraduate Course Handbook](#) developing this competency. If none is available, a 0.5 credit from Breadth Requirement Category #5: The Physical & Mathematical Universe, or a 0.5 credit approved by the Undergraduate Director.

Note: There are no specific first-year requirements; however, first-year students are welcome to take [CJS200H1](#), [CJS201H1](#), Hebrew Language courses ([MHB155H1](#) and [MHB156H1](#)), and Yiddish ([GER260Y1](#) or [GER261H1](#) and [GER262H1](#)), which count towards the Jewish Studies Major.

Jewish Studies Minor (Arts Program) - ASMIN0385

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300+ level)

1. [CJS200H1](#)/ [CJS201H1](#) (See Note)

2. 3.5 credits in any of the four areas of Jewish Studies. All courses in the [Centre for Jewish Studies Undergraduate Course Handbook](#) count towards this

Centre for Jewish Studies Courses

CJS200H1 - Introduction to Jewish Thought

Hours: 24L

A balanced presentation of the multifaceted approach to the discipline by treating Jewish religion and thought. The course introduces students not only to a chronological and thematic overview of the subject, but also to different methodological approaches.

Breadth Requirements: Thought, Belief and Behaviour (2)

CJS201H1 - Introduction to Jewish Cultures

Hours: 24S

General introduction to history, literatures and cultures of Jewish people from antiquity to contemporary. A balanced presentation of multi-disciplinary approaches and multi-methodological approaches to Jewish studies, with a special emphasis on Jewish cultural studies and Jewish secularity.

Breadth Requirements: Creative and Cultural Representations (1)

CJS220H1 - The Holocaust in Fiction

Hours: 24S

The course examines literary works written in different languages, in ghettos and concentration camps during the Holocaust, as well as those reflecting on the genocide in its aftermath. We focus on literature as a means of engaging with the unimaginable and on the cross analysis of eye-witness and memory writing.

requirement. 1.0 out of the 3.5 credits must be at the 300+ level.

Note: There are no specific first-year requirements; however, first-year students are welcome to take [CJS200H1](#), [CJS201H1](#), and Hebrew Language courses ([MHB155H1](#) and [MHB156H1](#)) and Yiddish Language courses ([GER260Y1](#) or [GER261H1](#) and [GER262H1](#)), which count towards the Jewish Studies Minor.

Recommended Preparation: [CJS201H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CJS230H1 - God, Nation, and Self Transformed: The Secularization of the Jewish Experience

Hours: 24S

The course provides a theoretical background to the issue of secularization and examines the diverse attempts to define on a secular basis the Jew, the Jewish nation, and the Jewish God since the breakdown of traditional Jewish society. A variety of Jewish secularisms are examined in a larger, non-Jewish context.

Recommended Preparation: [CJS200H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

CJS290H1 - Topics in Jewish Studies

Hours: 24L/24T

An examination of issues in Jewish Studies. Content in any given year depends on instructor.

CJS301H1 - Community and Identity

Previous Course Number: CJS401H1

Hours: 24S

Exploration of Jewish notions of community, identity, and humanity in classic and contemporary sources.

Prerequisite: 4.0 credits

Exclusion: [CJS401H1](#)

Recommended Preparation: [CJS200H1](#)/ [CJS201H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

CJS330H1 - Who's a Jew? Theory, Myth, and Practice

Hours: 24L

This course introduces students to the host of core concepts in terms of which Jewish identity has been and continues to be defined and debated. Topics include: the difference between insiders and outsiders; collective vs individual identity; the nature of the bond between group members; identification across time, space, and disagreements; social and gendered hierarchies; joining and leaving the group; the identities of outsiders.

Exclusion: CJS290H1 (Topics in Jewish Studies: Who is a Jew?), offered in Fall 2014 and Fall 2015

Recommended Preparation: CJS200H1 or CJS201H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CJS331H1 - Encounters between Jewish and Modern Thought

Previous Course Number: CJS430H1

Hours: 24L

A detailed exploration of how Jewish thought develops in relationship to key figures or moments in modern European philosophy (e.g., Spinoza, Kant, Hegel, Kierkegaard, Marx, Nietzsche, Heidegger). The particular focus varies from year to year.

Prerequisite: 4.0 credits

Recommended Preparation: CJS200H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CJS340H1 - Mizrahim in Israel: History, Politics, and Culture

Hours: 24L

What is the significance of the designation “Mizrahi” in Israel today? Does it refer to people who share a common geographical and ethnic origin or does it indicate a shared worldview that draws upon Middle Eastern Arabic culture? What are its relations with other terms, such as “Sephardi,” “Oriental,” or “Levantine”? What kind of political membership does it entail? Does it possess a certain cultural, religious, or political vocabulary? And, ultimately, does the diasporic concept of “Mizrahiyut” (mizrahiiness) undermine national homogeneity or rather facilitate and enable its enforcement?

Exclusion: CJS390H1 (Special Topics in Jewish Studies: Mizrahim in Israel: History, Politics, and Culture), offered

in Summer 2017

Recommended Preparation: CJS201H1

Breadth Requirements: Society and its Institutions (3)

JGJ360H1 - Holocaust in Literature (E)

Hours: 24S

This course examines literary works written in different languages, in ghettos and concentration camps during the Holocaust, as well as those reflecting on the genocide in its aftermath. We focus on literature as a means of engaging with the unimaginable and on the cross analysis of eye-witness and memory writing.

Prerequisite: Completion of 4.0 credits

Exclusion: CJS220H1, GER367H1

Breadth Requirements: Creative and Cultural Representations (1)

CJS383H1 - Jews and Power

Hours: 24L

This course will explore the relationship of Jews to political power. Among the themes to be covered are: How has the relationship of the Jewish community to political authority changed over time? What is the Jewish conception of political authority? How did Jews protect their communal and individual rights in the absence of sovereignty? How did the dynamics of antisemitism, philosemitism, and anti-Jewish violence change over time? How did Zionism and the revival of Jewish sovereignty change the position of Jews in the political order? What are the political and moral dilemmas posed by statehood? And what are the implications of Jewish sovereignty for Jews in the Diaspora?

Prerequisite: POL101Y1 or CJS200H1 or CJS201H1

Exclusion: POL383H1

Breadth Requirements: Society and its Institutions (3)

CJS389H1 - Jewish Secularism and Messianic Thought: From Spinoza to Derrida

Hours: 24S

This course examines the critical role that Messianic thought plays in the emergence of modern Jewish secular thought. A study of the secular dimension of Messianism in the writings of Jewish philosophers, from Spinoza to Derrida, leading to the larger question of its place in the project of Jewish modernity.

Recommended Preparation: CJS200H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CJS390H1 - Special Topics in Jewish Studies

Hours: 24L

An examination of issues in Jewish Studies. Content in any given year depends on instructor.

Prerequisite: Completion of at least 4.0 credits.

CJS391H1 - Special Topics in Jewish Studies

Hours: 24L

An examination of issues in Jewish Studies. Content in any given year depends on instructor.

Prerequisite: Completion of at least 4.0 credits.

CJS392H1 - Special Topics in Jewish Studies

Hours: 24L

An examination of issues in Jewish Studies. Content in any given year depends on instructor.

Prerequisite: Completion of at least 4.0 credits.

CJS396H1 - Independent Study

A scholarly project on an approved topic supervised by a faculty affiliated with the Centre for Jewish Studies. For details, please visit [the ATCJS webpage on Independent Studies Courses](#). Not eligible for CR/NCR option.

Prerequisite: CJS200H1 or CJS201H1, and permission from the CJS Undergraduate Director. For instructions on how to enrol in this course, please visit the ATCJS webpage on Independent Studies Courses: <https://www.jewishstudies.utoronto.ca/undergraduate/curriculum-course-i...>

Recommended Preparation: At least 2.0 credits in Jewish Studies courses (this can include courses listed in the CJS Undergraduate Handbook)

CJS400H1 - Research Seminar in Jewish Studies

Hours: 24S

An interdisciplinary seminar in which Jewish Studies topics are explored intensively, culminating in a major research paper by each student. Not eligible for CR/NCR option.

Prerequisite: CJS200H1 or CJS201H1; permission of the instructor/program

CJS401Y1 - Community & Identity

Hours: 48S

Exploration of Jewish notions of community, identity, and humanity in classic and contemporary sources as well as through experiential learning in which students are placed in internships at organizations and institutions that identify themselves as Jewish and as serving the Jewish community in the GTA. Not eligible for CR/NCR option.

Prerequisite: CJS200Y1 or CJS201Y1 and at least two other half-courses in Jewish Studies; permission of instructor

Breadth Requirements: Thought, Belief and Behaviour (2)

CJS440H1 - The Arab Jew: A History of a Concept

Hours: 24L

This course invites students to explore the debates around the term "Arab Jews." A cultural, historical, and historiographical designation, the term encompasses a range of experiences for Arabic-speaking Jews. These Jews lived in diverse cultural worlds across the Middle East and North Africa, where they developed deep and enduring relationships with non-Jews, and were instrumental in shaping local, regional and national cultures and politics. By engaging with the term "Arab Jews" in its various incarnations, the course offers new perspectives on questions of Zionism and nationalism, colonialism and geography, religion and secularization, as well as historiography and memory.

Exclusion: CJS491H1 (Advanced Topics in Jewish Studies: The Arab Jew: A History of a Concept), offered in Winter 2017

Recommended Preparation: CJS201H1

Breadth Requirements: Creative and Cultural Representations (1)

CJS444H1 - Topics in the Study of Antisemitism

Hours: 24L

This seminar explores in depth one of the many theoretical or methodological issues that confront scholars of antisemitism. Possible topics include: definitions of antisemitism and their purposes; philosemitism and its conceptual and real connection with antisemitism; Jewish self-hatred; contextualist vs eternalist accounts of antisemitism; classic and contemporary theories of antisemitism.

Recommended Preparation: RLG344H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CJS490H1 - Advanced Topics in Jewish Studies

Hours: 24S

An in-depth investigation of topics in Jewish Studies. Content in any given year depends on instructor.

Prerequisite: Permission of the instructor/program

CJS491H1 - Advanced Topics in Jewish Studies

Hours: 24S

An in-depth investigation of topics in Jewish Studies. Content in any given year depends on instructor.

Prerequisite: Permission of the instructor/program

CJS498Y1 - Independent Study

A scholarly project on an approved topic supervised by a faculty affiliated with the Centre for Jewish Studies. For details, please visit [the ATCJS webpage on Independent Studies Courses](#). Not eligible for CR/NCR option.

Prerequisite: CJS200H1 or CJS201H1, and permission from the CJS Undergraduate Director. For instructions on how to enrol in this course, please visit the ATCJS webpage on Independent Studies Courses: <https://www.jewishstudies.utoronto.ca/undergraduate/curriculum-course-i...>

CJS499H1 - Independent Study

A scholarly project on an approved topic supervised by a faculty affiliated with the Centre for Jewish Studies. For details, please visit [the ATCJS webpage on Independent Studies Courses](#). Not eligible for CR/NCR option.

Prerequisite: CJS200H1 or CJS201H1, and permission from the CJS Undergraduate Director. For instructions on how to enrol in this course, please visit the ATCJS webpage on Independent Studies Courses: <https://www.jewishstudies.utoronto.ca/undergraduate/curriculum-course-i...>

Laboratory Medicine and Pathobiology

Faculty List

Professor and Chair of the Department

R. Kandel, MD (Professor and Chair)

Associate Chair, Undergraduate Life Science Education

J. Lee, PhD

Professors

M. Bendeck, PhD
M. Cybulsky, MD
S. Girardin, PhD
P. Hamel, PhD
D.M. Irwin, PhD
G. G. Kovacs, MD, PhD
K. Mekhail, PhD
M. Opas, PhD
G. Schmitt-Ulms, PhD
D.M. Templeton, PhD, MD

Associate Professors

G. Charames, MSc, PhD, DABMGG, FACMG
S. Das, MD, PhD
S. Done, MA, MB, BChir, MBA, PhD, FRCPC, FCAP, FRCPath, FCCMG
M. Laflamme, BS, PhD, MD
S. MacParland, PhD
J. Mogridge, PhD
K. Singh, PhD
H.K. Sung, MD, PhD

Assistant Professors

L. Fu, PhD, DABCC, FACB, FCACB
B. Jung, PhD, FCACB
G. Karoubi, PhD
A. Krizova, MD, MSc, FRCPC
L. Kyriakopoulou, PhD, FCACB, FABMG
F. Leung, PhD
S. Ogawa, PhD
R. Selvaratnam, PhD, FAACC, DABCC
L. Sepiashvili, PhD
S. Smith, MD
J. Taher, PhD, FCACB
K. Thu, PhD
A. Wong, MSc, PhD
J. Wu, MD, FRCP
L. Yuan, PhD, FACMG
S. Yuzwa, PhD

Lecturer

M. Khara, BSc, MD, FRCPC (AP & FP)

Introduction

The Department of Laboratory Medicine and Pathobiology provides a bridge between the basic sciences and medicine. Investigating the molecular mechanisms of disease is an important priority of the department. Faculty are concerned with the biochemical changes that may be associated with cell and tissue injury and with the etiology, pathogenesis and behaviour of disease. Research is carried out in such areas as cardiovascular disease, immunopathobiology, neuropathology, endocrinology and metabolism, neoplasia, bone and connective tissue disease, clinical and molecular epidemiology, antibiotic resistance, and molecular pathogenesis of infectious disease.

The Pathobiology Specialist program gives students a broad understanding of contemporary medical research and basic scientific insights that have revolutionized our understanding of disease in recent years. Aspects of biochemistry, chemistry, cellular and molecular biology, and genetics are brought to bear upon human pathology. Graduates from the program will frequently pursue graduate studies in medical research and eventual research careers in academic, industrial, pharmaceutical, or governmental laboratories. A knowledge of cellular and molecular mechanisms of disease processes is also useful in a wide variety of multidisciplinary careers in government, regulatory agencies, law, and environment.

Associate Chair, Undergraduate Life Science Education:
Dr. Jeffrey Lee (Imp.undergradcoordinator@utoronto.ca)

Undergraduate Office/General inquiries:
Louella D'Cunha (Imp.undergrad@utoronto.ca; Medical Sciences Building, Room 6209; 416-946-0136)

More information is available on our website:
<https://Imp.utoronto.ca/undergraduate>

Consult the [Arts & Science Specialist Program in Pathobiology website](#) for additional contact information aimed at specific LMP courses.

Laboratory Medicine and Pathobiology Programs

Pathobiology Specialist (Science Program) - ASSPE2025

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade or Variable Minimum Grade Average

A minimum grade/minimum grade average in required courses or their equivalents is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO120H1 and BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- (MAT135H1 and MAT136H1)/ MAT137Y1/
MAT157Y1

The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at imp.undergrad@utoronto.ca and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for program enrolment information.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Pathobiology Specialist in the Summer after Year 2.

Completion Requirements:

(14.0-15.5 credits, including at least 2.0 credits at the 400-level)

First Year:

- BIO120H1, BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- (MAT135H1, MAT136H1)/ MAT137Y1/
MAT157Y1

First or Second Year:

- (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Second Year:

- BCH210H1
- BIO230H1
- BIO260H1/ HMB265H1
- CHM220H1
- CHM247H1/ CHM249H1
- PSL300H1, PSL301H1
- STA288H1/ STA220H1/ BIO220H1
- LMP200H1

Third Year:

- BCH370H1, BCH311H1
- LMP310H1, LMP320H1, LMP330H1

Choose one of the options below:

- Option A: Immunology: (IMM341H1, IMM351H1)
- Option B: Microbiology: (MGY377H1, MGY378H1)
- Option C: Anatomy: ANA300Y1
- Option D: Metabolic and Signaling Pathways: PSL425H1 and PCL386H1
- Option E: Research: LMP305Y1 and one of the above four options

Fourth Year:

Students should choose four of the following 400-level courses (2.0-2.5 credits):

- LMP405Y1, LMP410H1, LMP415H1, LMP420H1,
LMP430H1, LMP440H1, LMP450H1, LMP460H1

Note: If the research course LMP405Y1 is taken, an additional three 400-level courses from the list are still required (totalling 2.5 credits).

Laboratory Medicine and Pathobiology Courses

LMP200H1 - Pathobiology of the Cell

Previous Course Number: LMP340H1

Hours: 24L/12T

This course builds on concepts in cellular pathobiology to develop an advanced understanding of the function and dynamics of the cell in the context of health and disease. Concepts in cell injury, cell adaptation, migration, cell stress, cell survival, cell death, oxidative stress, endocytosis, ion homeostasis, protein folding, and their implications for disease are covered.

Prerequisite: BIO230H1, PSL300H1; enrolment is limited to students in the Pathobiology Specialist program

Exclusion: LMP301H1, LMP363H1, LMP340H1

Recommended Preparation: BCH210H1

Breadth Requirements: Living Things and Their Environment (4)

LMP299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...> Not eligible for CR/NCR option.

LMP301H1 - Introduction to the Biochemistry of Human Disease

Hours: 24L

Introduces concepts and mechanisms of disease processes as they arise from disturbances of normal biochemical and physiological functions. The rational use of the clinical biochemistry laboratory in the diagnosis and management of disease is explained. Not intended for students in the Pathobiology Specialist program.

Prerequisite: BCH210H1/ BCH242Y1

Exclusion: LMP310H1, LMP320H1

Recommended Preparation: PSL201Y1/ PSL300H1/ PSL301H1

Breadth Requirements: Living Things and Their Environment (4)

LMP305Y1 - Pathobiology Research Analysis and Project

Hours: 24L/100P

This course is designed to introduce third-year students to biomedical research, and to provide them with the analytical skills required to be a successful scientist. Students will have the opportunity to carry out a full-year research project under the supervision of an LMP faculty member (6-8 hours/week in lab). A lecture component will cover laboratory practice, experimental design, basic logic/argument, statistics, data analysis and scientific communication. The fundamentals taught in these lectures will be used to critique and analyze scientific literature. This course is recommended for students with a general interest in research and especially to students who will conduct additional research projects as part of the LMP summer research program and/or the LMP405Y1 fourth-year research project course.

Prerequisite: STA288H1/ STA220H1, BCH210H1, BIO230H1 Students are required to secure an LMP supervisor. This course is open to non-Pathobiology Specialist students, but students must carry out a research project under the supervision of an LMP faculty member.

Breadth Requirements: Living Things and Their Environment (4)

LMP310H1 - Fundamentals of Pathobiology

Hours: 24L/12T

This course covers the major molecular mechanisms that impact human health and disease. Specifically, it is divided into three blocks that focus on the fundamentals of pathobiology in cancer, cardiovascular diseases and infection. It is intended to introduce the cellular and molecular concepts of health and disease that will be explored with more depth in fourth-year LMP courses.

Prerequisite: LMP200H1, BCH210H1

Breadth Requirements: Living Things and Their Environment (4)

LMP320H1 - Pathobiology of Stem Cells

Hours: 24L/12T

This course introduces stem cells and their impact on human health and disease. Stem cells are studied from the perspective of development and disease, with a focus on the nervous system, respiratory system and cancer.

This course is intended to provide a foundation in the basis of stem cells in preparation for fourth-year courses.

Prerequisite: LMP200H1

Breadth Requirements: Living Things and Their Environment (4)

LMP330H1 - Genetic and Computational Modeling in Human Development and Disease

Previous Course Number: LMP408H1

Hours: 24L/12T

Introduces the use and impact of genetic model systems and organisms in exploring aspects of human reproduction, development, aging and disease. Ethical issues in animal research, genetic manipulation, and disease modeling are highlighted. This course also introduces the bioinformatics concepts and methods used in biological data analysis.

Prerequisite: LMP200H1, BIO260H1/ HMB265H1

Exclusion: LMP408H1

Breadth Requirements: Living Things and Their Environment (4)

LMP363H1 - Principles of Pathobiology

Hours: 24L

Pathological changes brought on by foreign compounds; mechanisms of pathologic, toxic and carcinogenic change.

Prerequisite: BIO230H1, CHM247H1/ CHM249H1

Exclusion: LMP310H1, LMP320H1

Breadth Requirements: Living Things and Their Environment (4)

LMP399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

LMP405Y1 - Project in Pathobiology

Hours: 154P

A self-contained research project to be completed under the supervision of a faculty member. The main areas of research are as listed in the Department's section of the Academic Calendar. The student will normally have completed three full years of study, and is expected to devote at least one full day per week to the project. Admission is by arrangement with the Department and with a particular supervisor. A list of potential supervisors is available from the Departmental Office and on our web site. Not eligible for CR/NCR option.

Prerequisite: BCH210H1/ BCH242Y1, LMP310H1, LMP320H1, LMP330H1

Breadth Requirements: Living Things and Their Environment (4)

LMP410H1 - Pathobiology of Neurodegenerative Disease

Hours: 24L

Molecular basis of neurodegenerative diseases of the central and peripheral nervous systems. Emphasis on the molecular pathobiology of neurodegenerative diseases, current research developments and guidance with writing of research proposals. Mid-term and final exams will practice assembly of a succinct research proposal and query neurodegenerative disease material taught in course.

Prerequisite: BCH311H1/ (PSL300H1, PSL301H1)

Breadth Requirements: Living Things and Their Environment (4)

LMP415H1 - Forensic Pathobiology

Hours: 24L

A thematic review of the major scientific areas and research controversies in forensic medicine. The approach is mechanistic analysis and evidence-based medicine. Classical forensic medicine is critically analyzed with emphasis on experimental methods to resolve controversies. We also explore how the justice system utilizes medical and scientific data.

Prerequisite: LMP310H1, LMP320H1

Breadth Requirements: Living Things and Their Environment (4)

LMP420H1 - Cancer Pathogenesis

Hours: 24L/12T

A general introduction to the cellular and molecular aspects of cancer and its etiology. Topics include pathophysiology of cancer, invasion and metastases, role of the immune system, immune evasion, understanding biological targets, chemotherapeutic and immunotherapeutic agents and its mechanism of action, and resistance mechanisms of cancer.

Prerequisite: LMP310H1. Life sciences students who do not have all of the required prerequisites are encouraged to contact the academic unit to seek a waiver.

Recommended Preparation: PCL386H1

Breadth Requirements: Living Things and Their Environment (4)

LMP430H1 - Metabolic Disorders

Hours: 24L/12T

This is an advanced-level course that focuses on the pathobiology of metabolic disorders, whether inherited or acquired. It covers enzymatic pathways and diseases associated with fat/energy metabolism, dyslipidemia, dysglycemia, aminoacidopathies and lysosomal storage disorders.

Prerequisite: BCH210H1, PSL300H1. Life sciences students who do not have all of the required prerequisites are encouraged to contact the academic unit to seek a waiver.

Recommended Preparation: PSL425H1

Breadth Requirements: Living Things and Their Environment (4)

LMP440H1 - Mechanisms in Host-Microbe Interactions

Previous Course Number: LMP402H1 & LMP436H1

Hours: 24L

Mechanisms that allow microbial pathogens to cause disease and the host to detect infection, mount an inflammatory response and resolve the infection. Primary research articles are discussed. Topics include commensal and pathogenic bacteria, microbe recognition, programmed cell death, immunometabolism, inflammatory diseases.

Prerequisite: (IMM340H1, IMM350H1) / (IMM341H1, IMM351H1) / (MGY377H1, MGY378H1) / LMP310H1. Life sciences students who do not have all of the required prerequisites are encouraged to contact the academic unit to seek a waiver.

Exclusion: LMP402H1, LMP436H1

Breadth Requirements: Living Things and Their Environment (4)

LMP450H1 - Organogenesis in Health and Disease

Hours: 24L/12T

This course introduces advanced topics in stem cell biology and focuses on the latest developments related to the use of stem cells in the design and generation of organoids and organs for use in research. The use of organogenesis within basic and clinical research settings will be highlighted with a focus on several human diseases. This course will build on the third-year courses, through which students will have been introduced to stem cell biology within the context of human diseases.

Prerequisite: LMP320H1, LMP330H1. Life sciences students who do not have all of the required prerequisites are encouraged to contact the academic unit to seek a waiver.

Breadth Requirements: Living Things and Their Environment (4)

LMP460H1 - Pathobiology of the Cardiovascular System

Previous Course Number: LMP406H1

Hours: 24L

Pathobiology of the heart, blood vessels, and lymphatic system. Congenital diseases of the heart, ischemic injury, stroke. Treatments of vascular disease and cardiovascular biomaterials. Major focus on atherosclerosis and hypertension. The emphasis is on the underlying cell biology of these processes.

Prerequisite: (PSL300H1, PSL301H1) / PSL302Y1. Life sciences students who do not have all of the required prerequisites are encouraged to contact the academic unit to seek a waiver.

Exclusion: LMP406H1

Breadth Requirements: Living Things and Their Environment (4)

Latin American Studies

Faculty List

Professors

Anne-Emanuelle Birn (International Development & Public Health)
 Gustavo J. Bobonis (Economics)
 Laura Colantoni (Spanish and Portuguese)
 Kevin L. O'Neill (Religion)
 Ana Teresa Pérez-Leroux (Spanish and Portuguese)
 Jeffrey M. Pilcher (History)
 Rosa Sarabia (Spanish and Portuguese)
 Judith Teichman (Political Science)

Associate Professors

Christian Abizaid (Geography & School for the Environment)
 Susan Antebi (Spanish and Portuguese)
 Kevin P. Coleman (Historical Studies)
 María Cristina Cuervo (Spanish and Portuguese)
 Rubén Gaztambide-Fernández (OISE)
 Gustavo Indart (Economics)
 Eva-Lynn Jagoe (Spanish and Portuguese, Centre for Comparative Literature)
 Teresa Kramarz (Munk School of Global Affairs and Public Policy)
 Christopher Krupa (Anthropology)
 Mariana Mota Prado (Law)
 Valentina Napolitano (Anthropology)
 Melanie J. Newton (History)
 Alejandro Paz (Anthropology)
 Néstor E. Rodríguez (Spanish and Portuguese)
 Luisa Farah Schwartzman (Sociology)
 Edward R. Swenson (Anthropology)
 Sanda Munjic (Spanish and Portuguese)

Assistant Professors

Martha Balaguera (Political Science)
 Laura Doering (Rotman)
 Jerry Flores (Sociology)
 Ryan Isakson (Geography and Planning)
 Suzi Lima (Linguistics)
 Sharlene Mollet (Critical Development Studies & Human Geography)
 Lena Mortensen (Anthropology)
 Jeff Packman (Music History and Culture)
 Victor Rivas (Spanish and Portuguese)
 Luis van Isschot (History)

Associate Professor, Teaching Stream

Manuel Ramírez (Spanish and Portuguese)

Assistant Professor, Teaching Stream

Juan Carlos Rocha Osornio (Spanish and Portuguese)

Sessional Lecturers

Bernardo García Domínguez (New College & Latin American Studies)
 Donald Kingsbury (Political Science & Latin American Studies)

Professors Emeriti

Albert Berry (Economics)
 Peter Blanchard (History)
 Ricardo Sternberg (Spanish and Portuguese)

Introduction

The Latin American Studies program at the Department of Spanish and Portuguese provides students in the social sciences and humanities an opportunity to engage and deepen their understanding of Latin American regions, their histories, politics, cultures, economies and societies. Courses encourage students to situate both their special interests and the contemporary debates in fields such as anthropology, political science, geography, literature, or history within a broader interdisciplinary framework, while at the same time committing themselves to an understanding of the historical, cultural and political experiences of Spanish and Portuguese America. Through an engagement with different texts and faculty expertise, this program trains students in current themes such as postcolonial thinking, critical readings of colonial histories, literary and anthropological genres, comparative politics, politics of indigeneity and human rights, as well as in environmental policies and political economy of Latin America and the Americas as a transnational whole. With the possibility to carry out curricula experience in Latin America, this program also offers an important lead for career development experiences on Latin America. This knowledge is increasingly necessary for Canada, as the country enters into new trade, political, environmental, and academic agreements with our emerging hemispheric partners.

Students seeking counselling and information should visit our website: <https://www.spanport.utoronto.ca> and/or contact the Associate Chair, Undergraduate Studies.

Latin American Studies Programs

Latin American Studies Major (Arts Program) - ASMAJ0552

The Latin American Studies program at the Department of Spanish and Portuguese provides students in the social

sciences and humanities an opportunity to engage and deepen their understanding of Latin American regions, their histories, politics, cultures, economies and societies. Courses encourage students to situate both their special interests and the contemporary debates in fields such as anthropology, political science, geography, literature, or history within a broader interdisciplinary framework, while at the same time committing themselves to an understanding of the historical, cultural and political experiences of Spanish and Portuguese America. Through an engagement with different texts and faculty expertise, this program trains students in current themes such as postcolonial thinking, critical readings of colonial histories, literary and anthropological genres, comparative politics, politics of indigeneity and human rights, as well as in environmental policies and political economy of Latin America and the Americas as a transnational whole. With the possibility to carry out curricula experience in Latin America, this program also offers an important lead for career development experiences on Latin America. This knowledge is increasingly necessary for Canada, as the country enters into new trade, political, environmental, and academic agreements with our emerging hemispheric partners.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits, including a minimum of 2.0 LAS credits at the 300+ level, of which a 0.5 credit must be at the 400-level)

1. LAS200H1, LAS201H1.
 2. 1.5 LAS credits at the 300-level.
 3. 0.5 LAS credit at the 400-level, or an equivalent 0.5 credit at the 400-level, approved by the Associate Chair of Latin American Studies or the Department of Spanish and Portuguese.
 4. 0.5 credit from: JQR360H1, POL222H1, GGR270H1, DTS300H1 or another 0.5 credit course on a combination of quantitative and qualitative reasoning / research design approved by the Associate Chair of Latin American Studies or the Department of Spanish and Portuguese.
 5. 2.5 LAS credits or pre-approved courses from Lists A and B, of which a maximum of 0.5 credit may be from List B.
- Students must successfully complete (with a minimum grade of 65%) at least the second level of language instruction in Spanish or Portuguese by the end of the third year of study. This requirement is normally met through 1.0 credit from either the list of Spanish courses in Group A or from the list of Portuguese courses in List A. Students can also demonstrate equivalent proficiency in the given language through completion of 1.0 credit from the list of Latin

American Cultural Expressions courses in List A at a second-year level of instruction or higher.

List A (Thematic Group):

Latin American Societies: ANT320H1, ANT340H1, ANT407H1
 Historical Understandings of Latin America: HIS291H1, HIS292H1, HIS390H1, HIS397H1
 Latin American Politics: POL305Y1/ POL305H1, POL325H1, POL360H1, POL442H1
 Latin American Cultural Expressions: SPA275H1, SPA375H1, SPA381H1, SPA382H1, SPA384H1, SPA385H1, SPA386H1, SPA387H1, SPA389H1, SPA467H1, SPA475H1, SPA480H1, SPA482H1, SPA486H1, SPA488H1, SPA489H1, PRT275H1, PRT375H1
 Caribbean Studies: JLN327H1, JLN427H1
 Forest Conservation and Forest Biomaterials Science: FOR201H1
 Geography: GGR341H1
 Music: MUS305H1
 Portuguese: (PRT101H1, PRT102H1)/ PRT100Y1, PRT120H1, (PRT201H1, PRT202H1)/ PRT220Y1, PRT205H1, PRT301H1, PRT302H1, PRT305H1, PRT120Y1, PRT219Y1, PRT368H1, PRT420H1
 Spanish: (SPA101H1, SPA102H1)/ SPA100Y1, SPA120Y1, SPA196H1, (SPA201H1, SPA202H1)/ SPA220Y1, (SPA205H1, SPA305H1)/ SPA219Y1, SPA258H1, SPA259H1, (SPA301H1, SPA302H1)/ SPA320Y1, SPA323H1

List B (Disciplinary Group):

Caribbean Studies: CAR120Y1, CAR220H1, CAR221H1, CAR324H1
 Diaspora and Transnational Studies: DTS200Y1
 Economics: ECO324H1, ECO403H1
 Geography: JGE321H1
 Indigenous Studies: INS200H1, INS205H1
 New College Critical Studies in Equity and Solidarity: CSE240H1, CSE270H1, CSE346H1

Latin American Studies Minor (Arts Program) - ASMIN0552

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including at least 1.0 credit at the 300+ level.)

1. LAS200H1 and LAS201H1
2. 0.5 LAS credit at the 300-level.
3. 2.5 LAS credits, or pre-approved courses from cognate units listed below (List A). Of the 2.5 credits, a minimum of 0.5 credit must be from the Social Sciences/BR=3; another 0.5 credit must be

from the Humanities/BR=1 or 2. ([LAS300H1](#) or [LAS370H1](#) can be used to cover the Social Science requirement and [LAS301H1](#), [LAS310H1](#), [LAS320H1](#), [LAS350H1](#) for the Humanities requirement).

Spanish or Portuguese language study is recommended, but not a requirement.

List A (Thematic Group):

Latin American Societies: [ANT320H1](#), [ANT340H1](#), [ANT407H1](#)

Historical Understandings of Latin America: [HIS291H1](#), [HIS292H1](#), [HIS390H1](#), [HIS397H1](#)

Latin American Politics: [POL305Y1](#)/ [POL305H1](#), [POL325H1](#), [POL360H1](#), [POL442H1](#)

Latin American Cultural Expressions: [SPA275H1](#), [SPA375H1](#), [SPA381H1](#), [SPA382H1](#), [SPA384H1](#), [SPA385H1](#), [SPA386H1](#), [SPA387H1](#), [SPA389H1](#),

[SPA467H1](#), [SPA475H1](#), [SPA480H1](#), [SPA482H1](#), [SPA486H1](#), [SPA488H1](#), [SPA489H1](#), [PRT275H1](#), [PRT375H1](#)

Caribbean Studies: [JLN327H1](#), [JLN427H1](#)

Forest Conservation and Forest Biomaterials Science: [FOR201H1](#)

Geography: [GGR341H1](#)

Music: [MUS305H1](#)

Portuguese: ([PRT101H1](#), [PRT102H1](#))/ [PRT100Y1](#), [PRT120H1](#), ([PRT201H1](#), [PRT202H1](#))/ [PRT220Y1](#), [PRT205H1](#), [PRT301H1](#), [PRT302H1](#), [PRT305H1](#), [PRT120Y1](#), [PRT219Y1](#), [PRT368H1](#), [PRT420H1](#)

Spanish: ([SPA101H1](#), [SPA102H1](#))/ [SPA100Y1](#), [SPA120Y1](#), [SPA196H1](#), ([SPA201H1](#), [SPA202H1](#))/ [SPA220Y1](#), ([SPA205H1](#), [SPA305H1](#))/ [SPA219Y1](#), [SPA258H1](#), [SPA259H1](#), ([SPA301H1](#), [SPA302H1](#))/ [SPA320Y1](#), [SPA323H1](#)

Latin American Studies Courses

LAS200H1 - Introduction to Latin American Studies I: Foundational Themes

Hours: 24L/12T

An introductory course studying the development of Latin American societies from their pre-Columbian past to the 19th century building of modern nations. Cultural, historical, political, and social topics are examined combining historical documents with art, music and other texts from popular culture.

Exclusion: [IAS200Y1](#), [LAS200Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

LAS201H1 - Introduction to Latin American Studies II: Current Issues

Hours: 24L/12T

An introductory course studying the development of Latin American societies from the 20th century to the present. Cultural, historical, political, and social topics are examined combining historical documents with art, music and other texts from popular culture.

Exclusion: [IAS200Y1](#) and [LAS200Y1](#)

Recommended Preparation: [LAS200H1](#)

Breadth Requirements: Society and its Institutions (3)

LAS300H1 - Topics in the Social Sciences

Hours: 24S

The goal of this course is to critically analyze the current economic, social, and political realities of Latin America, based on an insightful knowledge of its past and present. Topics of the course vary depending on the needs of the program and the interests of students.

Prerequisite: [IAS200Y1](#)/ [LAS200Y1](#)/([LAS200H1](#), [LAS201H1](#))/ [POL305Y1](#)

Breadth Requirements: Society and its Institutions (3)

LAS301H1 - Topics in the Humanities

Hours: 24S

The goal of this course is to critically analyze the Latin American social imaginaries as expressed in art, literature and/or film, based on close readings of texts. Topics of the course vary depending on the needs of the program and the interests of students.

Prerequisite: [IAS200Y1](#)/ [LAS200Y1](#)/ [LAS201H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

LAS302H1 - Topics in Latin American Studies

Hours: 24S

The goal of this course is to critically explore debates and perspectives on development and on the politics of

inequality in Latin American contexts. Topics of the course may vary, depending on the needs of the program and the interests of students and instructors.

Recommended Preparation: [LAS200H1](#), [LAS201H1](#), [LAS300H1](#), [POL305Y1](#)

LAS310H1 - The Postcolonial Imaginary in Latin America

Hours: 24L

This seminar style course explores the postcolonial status of Latin America as a controversial issue, through critical analysis of the Latin American social imaginary. The course considers works by Simón Bolívar, José Martí, Ernesto Guevara, Pablo Neruda, Rigoberta Menchú, Subcomandante Marcos, Sergei Eisenstein, Walter Salles, Tomás Gutiérrez Alea, as well as films that illustrate the rich visual culture of the continent. Readings and seminar discussions are conducted in English.

Prerequisite: [LAS200H1](#) + [LAS201H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

LAS320H1 - Latin American Thought

Hours: 24L

This seminar-style course explores critical thinking about culture, history, politics, and society by some of the most influential Latin American intellectuals of the 20th and 21st centuries. Emphasis on theoretical contributions, in English translation, of Latin American thinkers such as Rodó, Vasconcelos, Mariategui, Zea, Dussel, García Canclini, Cornejo Polar, Quijano and Lugones. Topics covered include questing identities, cultural diversity, indigenism, liberation theology, colonialism, neocolonialism, postcolonialism, coloniality, and decoloniality. Readings and seminar discussions in English.

Prerequisite: [LAS200H1](#) + [LAS201H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

JLN327H1 - Culture and Modernity in the Hispanic Caribbean

Hours: 24L

Explores the Hispanic areas of the Caribbean including the Caribbean areas of continental Spanish-speaking America. Topics may include: regional politics, state and

economy; revolutions and authoritarian regimes; popular culture, the arts and media; religion and society; gender and sexuality; state structures; diasporas and migration.

Prerequisite: [HIS230H1](#)/ [HIS231H1](#)/ [CAR120Y1](#)/ [CAR220H1](#)/ [CAR221H1](#)/ [NEW224Y1](#)/ [CAR225H1](#)/ [CAR226H1](#)/ [LAS200H1](#)/ [LAS201H1](#)

Breadth Requirements: Society and its Institutions (3)

LAS348H1 - The Renaissance Mexico City

Hours: 24S

By exploring history, art, architecture, literature and music of sixteenth century Mexico City as a geographical and cultural point of reference, this course explores the historical event known as “the Renaissance” outside of its traditional localities. By the mid 16th century, colonial Mexico City became the contact zone and the hub for the exchange of peoples, goods and ideas that migrated across the Atlantic. Mexico City gives an alternative perspective to how local political and social-historical contexts shape ideas and cultural forms and illustrates the processes and effects of cultural cross-fertilization in the Renaissance. Taught in English.

Recommended Preparation: [LAS200H1](#), a History course on Early Modern Hispanic world or a course in the Renaissance Studies Program ([VIC346H1](#), “The Idea of the Renaissance”), or permission of the instructor

Breadth Requirements: Creative and Cultural Representations (1)

LAS350H1 - Indigenous Realities in Latin America

Hours: 24L

This course studies the past and present realities of the diverse indigenous societies of the regions we now call Latin America. Eurocentric texts such as the chronicles of the conquest of Mexico, are critically contrasted with diverse indigenous peoples’ self-representing narratives that respond to more than five hundred years of Spanish and Portuguese occupation of their lands. These texts include Nahuatl poetry and accounts of the conquest of Mexico, literary creations from multiple Maya linguistic groups, multi-lingual chronicles from the colonial Inca period, diverse indigenous political manifestos and movements, indigenous testimonios, and decolonizing indigenous literature and criticism. Taught in English.

Recommended Preparation: ([LAS200H1](#) + [LAS201H1](#))/ [INS201Y1](#)/ [POL305Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

JQR360H1 - The Canadian Census: Populations, Migrations and Demographics

Hours: 24L/12T

Examines the Canadian population census through the experience of diasporic groups in Canada. Approaches the census as a statistical tool, an historical source and an ideological project of citizenship and nationalism. Uses census data to explore mathematical and statistical concepts and to integrate numerical ways of thinking with qualitative analysis. (Jointly sponsored by African Studies, Diaspora and Transnational Studies, Caribbean Studies, Critical Studies in Equity and Solidarity, and Latin American Studies).

Prerequisite: DTS200Y1/ HIS230H1/ HIS231H1/ LAS200H1/ LAS201H1/ CAR120Y1/ AFR150Y1/ CAR220H1/ CAR221H1/ NEW224Y1/ CAR225H1/ CAR226H1/ CSE240H1/ NEW240Y1

Breadth Requirements: Society and its Institutions (3)

LAS370H1 - Critical Perspectives of Development in Latin American Contexts

Hours: 24L

A seminar-style course that engages in critical analysis of local and global development initiatives in a Latin American context. The seminar is organized around the interrelated themes of health, economics, education, globalization, and infrastructure. Topics of discussion may include: challenges and ethics of sustainable development initiatives in theory and practice, medical missions and global health, community-based transnational public health projects, developing localities and sustainable economics, local infrastructure development and environmental impacts, ethics and implications of volunteerism, local and global cultural perspectives, the colonial legacies of inequality, dependency and sustainability of development projects.

Readings and lectures in English.

Prerequisite: 4.0 credits

Recommended Preparation: (LAS200H1 + LAS201H1/ POL305Y1

Breadth Requirements: Society and its Institutions (3)

LAS400H1 - Topics in Latin American Studies

Hours: 24S

An upper level seminar. Topics of the course vary from year to year, depending on the needs of the program and the interests of students. Offered in alternate years.

Prerequisite: LAS200Y1/ (LAS200H1, LAS201H1) & LAS300H1/ LAS301H1

LAS401H1 - Latinos in Canada

Hours: 48T/24S

A historical survey of migration from Latin American countries to Canada, this course examines mediation strategies of Latinos as they adjust to a new home: negotiation of national identities, political participation, entrepreneurship, cultural representations, and charitable work. Students engage in service with organization working with/in LatAm communities.

Prerequisite: LAS200H1, LAS201H1, one LAS 300-level course, interview

Recommended Preparation: JQR360H1

Breadth Requirements: Society and its Institutions (3)

LAS410H1 - Independent Study

This course provides an opportunity for students to do academic research related to Latin American issues under the supervision of a faculty member. The intent is that the student, aided and advised by the supervisor, will read relevant literature, and plan, execute, analyze and report on an original and independent investigation of an appropriate topic. For application forms, please visit the "Resources" section of the program's website. Not eligible for CR/NCR option.

Prerequisite: LAS200Y1/ (LAS200H1, LAS201H1), and LAS300H1/ LAS301H1

LAS411Y1 - Independent Study

This course provides an opportunity for students to do academic research related to Latin American issues under the supervision of a faculty member. The intent is that the student, aided and advised by the supervisor, will read relevant literature, and plan, execute, analyze and report on an original and independent investigation of an appropriate topic. For application forms, please visit the "Resources" section of the programme's website. Not eligible for CR/NCR option.

Prerequisite: LAS200Y/(LAS200H1, LAS201H1) and LAS300H1/ LAS301H1/ LAS302H1

Exclusion: LAS410H1

JLN427H1 - Advanced Topics: The Hispanic Caribbean

Hours: 24S

Explores, in depth, a country in the Hispanic Caribbean or a theme relating to the Hispanic Caribbean. Topics vary each year and may include: Cuban society; Hispanic Caribbean revolutions; Hispanic Caribbean music, art and popular cultures; Hispanic Caribbean diasporas.

Prerequisite: HIS230H1/ HIS231H1/ JLN327H1/ LAS200H1/ LAS201H1/ CAR120Y1/ CAR220H1/ CAR221H1/ NEW224Y1/ CAR225H1/ CAR226H1

Exclusion: NEW427H1

Breadth Requirements: Society and its Institutions (3)

Life Sciences

The following Life Science departments and programs are listed in this Calendar:

- [Biochemistry](#)
- [Biology](#)
- [Cell & Systems Biology](#)
- [Ecology & Evolutionary Biology](#)
- [Human Biology](#)
- [Immunology](#)
- [Laboratory Medicine & Pathobiology](#)
- [Molecular Genetics & Microbiology](#)
- [Nutritional Sciences](#)
- [Pharmaceutical Chemistry](#)
- [Pharmacology & Toxicology](#)
- [Physiology](#)
- [Psychology](#)

Many of the Life Science programs are collaborative programs given by the Faculty of Arts and Science and departments in the Faculty of Medicine. The Life Sciences all focus on the scientific study of life. The study of biological processes has enormous importance for:

- Understanding one's own body and those of other organisms sharing our planet, both in health and sickness;
- Analysing the behaviour of humans and other organisms;
- Understanding the interdependent web of living organisms on the planet, and their evolutionary relationships;
- Preparing for ethical, social and political questions arising from our increasing ability to modify living systems;
- Enhancing our ability to protect the delicate and complex ecological balance that sustains this world.

Today, the biological sciences are experiencing a revolution. Important discoveries occur almost weekly as scientists and students around the world develop and use techniques, theories and approaches. Increasingly, we need people with advanced knowledge and training who can contribute to these discoveries and their application. Equally, we need people who know enough about life sciences generally to make informed judgments about critical issues such as global warming, population growth, the emergence of drug resistance and new diseases, and the degradation of the environment.

On the St. George campus, undergraduate education, graduate education and research in the Life Sciences is

carried out in departments within the Faculty of Arts and Science and the Faculty of Medicine.

The programs offered in the Life Sciences are listed below. Admission to all programs occurs after completion of 4.0 credits. Admission to some programs is limited. Please see individual program listings for admission criteria and procedures. Also check the [Arts & Science Program Toolkit](#) for details and application procedures.

Specialist Programs

Biochemistry, Biological Chemistry (Chemistry), Bioinformatics and Computational Biology (Cell & Systems Biology), Biology, Biophysics (Physics), Cell and Molecular Biology (Cell & Systems Biology), Ecology and Evolutionary Biology (Ecology & Evolutionary Biology), Environment and Health (School of the Environment), Fundamental Genetics and its Applications (Human Biology), Global Health (Human Biology), Health and Disease (Human Biology), Immunology, Molecular Genetics & Microbiology, Neuroscience (Human Biology), Pathobiology, Pharmaceutical Chemistry (Chemistry), Pharmacology, Physiology, Psychology, Psychology Research, Toxicology.

Major Programs

Animal Physiology (Cell & Systems Biology), Biochemistry, Biodiversity and Conservation Biology (Ecology & Evolutionary Biology), Biology, Cell and Molecular Biology (Cell & Systems Biology), Ecology & Evolutionary Biology, Environmental Biology (Ecology & Evolutionary Biology), Environment and Health (School of the Environment), Fundamental Genetics and its Applications (Human Biology), Genome Biology (Biology), Global Health (Human Biology), Health & Disease (Human Biology), Human Biology, Immunology, Neuroscience (Human Biology), Nutritional Sciences, Pharmacology, Physiology, Psychology, Toxicology.

Minor Programs

Biology, Environmental Biology (Ecology & Evolutionary Biology), Immunology, Physiology, Psychology.

Animal Use in Laboratories

Laboratory investigations are part of life science programs at the University of Toronto. Programs in life sciences at the University of Toronto include courses that involve observation, handling, or experimentation on animals or on samples derived from animals. The use of animals in teaching and research is regulated by ethical and procedural guidelines and protocols. These are approved on an ongoing basis by the University Animal Care Committee, and follow provincial and federal government rules. We recognize, however, that some students may have strong reservations about personal exposure to any

use of animal material in teaching. Students who want to avoid registration in programs or courses that include such labs are, therefore, encouraged to check in advance with the departments involved.

Linguistics

Faculty List

University Professor Emerita

K.D. Rice, MA, PhD

Professors Emeriti

J.K. Chambers, MA, PhD

E.A. Cowper, AM, PhD

B.E. Dresher, BA, PhD

A. Johns, MA, PhD

D. Massam, MA, PhD

P.A. Reich, MS, PhD

R. Wardhaugh, MA, PhD

Professor and Chair

N. Nagy, PhD

Assistant Professor and Associate Chair, Undergraduate

S. Lima, MA, PhD

Professors

A. Kochetov, MA, PhD

A.T. Perez-Leroux, MA, PhD

S.A. Tagliamonte, MA, PhD

Associate Professors

S. Bejar, MA, PhD

M.C. Cuervo, MA, PhD

R. DeCaire (Oheróhskon), MA, PhD

D. Heller, MA, PhD

M. Ippolito, MA, PhD

P. Jurgec, MA, PhD

K. Moulton, MA, PhD

N. Sanders, MA, PhD

G. Thomas, MA, PhD

Assistant Professors

S. Akinbo, PhD

J. Brant (Tahohtharátye) Ph.D., M.Ed.

M. Grigoroglou, MA, PhD

S. Jackson, PhD

P. Mateo Pedro, MA, PhD

Adjunct Professor

M.L. Chasin, MSc, AuD

Retired Lecturer

E.M. Gold, MA, PhD

Introduction

Linguistics can trace its roots back to the ancient Sanskrit grammarians, and the study of language is probably as old as language itself. However, the twentieth century has produced an explosion in the scientific study of language. As our understanding of the nature and structure of human language develops, linguistics is becoming relevant to many other areas of research such as Cognitive Science, Artificial Intelligence, Speech-Language Pathology, Audiology, Psychology, and Philosophy.

On its own, linguistics represents an invaluable key to the nature of the mind and the diverse elements of human culture; as a tool, linguistics is unmatched in preparing one for the learning and teaching of languages and for integrating language with technology.

Part-time students should note that most of the summer and evening courses available to them are offered on a rotating basis only. Consequently, students wishing to take such courses should enrol in them at the earliest opportunity after completing the necessary prerequisites.

In addition to the undergraduate curriculum within the Department of Linguistics, there are courses relating to linguistics offered in other departments such as the language departments, Anthropology, Computer Science, Philosophy, and Psychology, and in the Cognitive Science and Artificial Intelligence program.

Students seeking counselling and information should contact the Undergraduate Assistant (undergrad.linguistics@utoronto.ca) or the Associate Chair, Undergraduate, Professor Suzi Lima (ugling@utoronto.ca).

Linguistics Programs

Linguistics Specialist (Arts Program) - ASSPE0506

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(12.0 credits)

Required Courses (5.5 credits):

First Year: [LIN101H1](#), [LIN102H1](#)

Second Year: [LIN228H1](#), [LIN229H1](#), [LIN232H1](#),

LIN241H1, LIN251H1

Third and Fourth Years: LIN322H1, LIN331H1,
JAL401H1, JLP374H1/ JLP315H1

Elective Courses (4.5 credits):

A total of 4.5 credits in LIN/JAL/JFL/JLP/JLS (excluding LIN200H1, LIN203H1, LIN204H1, LIN206H1, LIN207H1, LIN208H1, LIN211H1) including 2.0 credits at the 300+ level including at least 0.5 credit at the 400 level

Up to 1.0 credit may be from other departments. Approved courses include ANT329H1, ANT425H1, ANT427H1; COG250Y1; CSC384H1, CSC401H1, CSC448H1, CSC485H1; FIN220H1, FIN305H1; FRE272H1, FRE273H1, FRE274H1, FRE376H1, FRE378H1, FRE379H1, FRE379H1, FRE383H1, FRE386H1, FRE387H1, FRE388H1, FRE471H1, FRE487H1, FRE488H1, FRE489H1; GER400H1, GER426H1, GER462H1; HPS250H1, HPS322H1, HPS352H1; ITA360H1, ITA363H1; MCS223H1; NML315H1, NML463H1; PHL210Y1, PHL245H1, PHL310H1, PHL311H1, PHL325H1, PHL326H1, PHL340H1, PHL342H1, PHL345H1, PHL347H1, PHL351H1, PHL355H1, PHL405H1, PHL451H1, PHL479H1, PHL480H1, PHL481H1; PRT364H1, PRT368H1; SLA255H1, SLA380H1, SLA452Y1; SPA322H1, SPA324H1, SPA421H1, SPA422H1, SPA423H1; VIC223Y1; LIN340H5. Other courses might also qualify; consult the Department of Linguistics for approval.

Note: LIN courses from other campuses are considered courses from other Departments.

Language Requirement (2.0 credits):

Two years of study or its equivalent of one non-Germanic, non-Romance language in courses using the spoken language. We encourage you to begin this language study in your first or second year. Approved sequences of courses include CLT141Y1, CLT251H1, and CLT252H1; EAS100Y1 and EAS200Y1; EAS120Y1 and EAS220Y1; EAS110Y1 and EAS210Y1; EST100H1, EST101H1, EST200H1, and EST201H1; FIN100H1, FIN110H1, FIN200H1, and FIN210H1; HUN100Y1 and HUN200Y1; INS220Y1 and INS323Y1/ INS320Y1; INS210Y1 and INS310Y1; AFR280Y1/ NEW280Y1 and AFR380Y1/ NEW380Y1; MGR100H1, MGR101H1, and MGR245Y1; NML110Y1 and NML210Y1; NML155H1, NML156H1, NML255H1, and NML256H1; NML260Y1 and NML360Y1; NML270Y1 and NML370Y1; SLA105Y1 and SLA204Y1; SLA106H1, SLA116H1, SLA206H1, and SLA207H1; SLA100H1, SLA101H1, and SLA220Y1; SLA107Y1, SLA257H1, and SLA277H1; SLA108Y1 and SLA208Y1. Other courses might also qualify, but must be pre-approved by the Department of Linguistics. Note that access to some language courses will be determined through priority enrolment.

Linguistics Major (Arts Program) - ASMAJ0506

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits)

- 1) All of: LIN101H1, LIN102H1
- 2) All of: LIN228H1, LIN229H1, LIN232H1, LIN241H1, LIN251H1
- 3) 0.5 credit from: JLP374H1 or JLP315H1
- 4) A further 1.0 LIN/JAL/JFL/JLP/JLS credit at the 300+ level
- 5) 0.5 LIN/JAL/JFL/JLP/JLS credit at the 400-level
- 6) An additional 1.5 credits in LIN/JAL/JFL/JLP/JLS (excluding LIN200H1, LIN203H1, LIN204H1, LIN206H1, LIN207H1, LIN208H1, LIN211H1)

Up to 1.0 credit may be from other departments. Approved courses include ANT329H1, ANT425H1, ANT427H1; COG250Y1; CSC384H1, CSC401H1, CSC448H1, CSC485H1; FIN220H1, FIN305H1; FRE272H1, FRE273H1, FRE274H1, FRE376H1, FRE378H1, FRE379H1, FRE379H1, FRE383H1, FRE386H1, FRE387H1, FRE388H1, FRE471H1, FRE487H1, FRE488H1, FRE489H1; GER400H1, GER426H1, GER462H1; HPS250H1, HPS322H1, HPS352H1; ITA360H1, ITA363H1; MCS223H1; NML315H1, NML463H1; PHL210Y1, PHL245H1, PHL310H1, PHL311H1, PHL325H1, PHL326H1, PHL340H1, PHL342H1, PHL345H1, PHL347H1, PHL351H1, PHL355H1, PHL405H1, PHL451H1, PHL479H1, PHL480H1, PHL481H1; PRT364H1, PRT368H1; SLA255H1, SLA380H1, SLA452Y1; SPA322H1, SPA324H1, SPA421H1, SPA422H1, SPA423H1; VIC223Y1; LIN340H5. Other courses might also qualify; consult the Department of Linguistics for approval.

Note: LIN courses from other campuses are considered courses from other Departments.

Linguistics Minor (Arts Program) - ASMIN0506

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year: LIN101H1, LIN102H1

Higher Years: 3.0 credits in LIN/JAL/JFL/JLP/JLS (excluding LIN200H1 and LIN211H1) of which 1.0 credit must be at the 300+ level

Up to 1.0 credit may be from other departments. Approved courses include ANT329H1, ANT425H1, ANT427H1; COG250Y1; CSC384H1, CSC401H1, CSC448H1, CSC485H1; FIN220H1, FIN305H1; FRE272H1, FRE273H1, FRE274H1, FRE376H1, FRE378H1,

FRE379H1, FRE379H1, FRE383H1, FRE386H1, FRE387H1, FRE388H1, FRE471H1, FRE487H1, FRE488H1, FRE489H1; GER400H1, GER426H1, GER462H1; HPS250H1, HPS322H1, HPS352H1; ITA360H1, ITA363H1; MCS223H1; NML315H1, NML463H1; PHL210Y1, PHL245H1, PHL310H1, PHL311H1, PHL325H1, PHL326H1, PHL340H1, PHL342H1, PHL345H1, PHL347H1, PHL351H1, PHL355H1, PHL405H1, PHL451H1, PHL479H1, PHL480H1, PHL481H1; PRT364H1, PRT368H1; SLA255H1, SLA380H1, SLA452Y1; SPA322H1, SPA324H1, SPA421H1, SPA422H1, SPA423H1; VIC223Y1; LIN340H5. Other courses might also qualify; consult the Department of Linguistics for approval.

Note: LIN courses from other campuses are considered courses from other Departments.

Linguistics Courses

LIN101H1 - Introduction to Linguistics: Sound Structure

Hours: 24L/12T

Introduction to fundamental principles of linguistics with particular attention to sound structure and its acquisition, processing, and variation; practice in elementary analytic techniques using data from a broad spectrum of languages.

Exclusion: LIN100Y1, LIN101H5, LINA01H3, LINA02H3

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN102H1 - Introduction to Linguistics: Sentence Structure and Meaning

Hours: 24L/12P

Introduction to fundamental principles of linguistics with particular attention to sentence and meaning structure, their acquisition, processing, and variation; practice in elementary analytic techniques using data from a broad spectrum of languages.

Exclusion: LIN100Y1, LIN102H5, LINA01H3, LINA02H3

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN192H1 - Sustaining Indigenous Languages

Hours: 24S

There has been much publicity in recent years about language shift and language loss and, along with it, language revitalization. In this course we examine shift involving Indigenous languages – and particularly those of Canada – from a variety of perspectives, and looking at reasons why one might want to 'save' a language. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN194H1 - The Science Behind Our Accents

Previous Course Number: TBB199H1

Hours: 24P

When we speak, the sound is transmitted through the air as a complex sound wave. How are various speech sounds – vowels and consonants – manifested acoustically? What does it mean, in physical terms, to have an accent? These and other related questions will be explored through computer-based acoustic analysis and perceptual experimentation. Upon completion of this course, students will (i) have overview knowledge of basic acoustic properties characterizing phonetic variation pertaining to speech, and accents in particular, (ii) be able to conduct simple speech production and perception experiments, and write up results in the form of scientific research reports, (iii) begin to read and understand scientific literature pertaining to acoustic phonetic variation

and its relevance for communication. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN195H1 - Babel: Language in the Mind of Speakers

Hours: 24L

What is the relation between language and thought? In this course we examine how language is represented in our minds, and how language and cognitive processes interact. While the link between words and meanings is arbitrary and reflects culture, language is considered to be a universal property of our species. We will examine the place of language in the architecture of the mind; the debates about the universality of language structure vs. linguistic relativism; and how language and thought interact in children's development. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN196H1 - Language and Communication

Hours: 24L

We will explore the ways in which information is communicated in conversation. We will consider systematic ways in which what a speaker intends to communicate with language goes beyond what one says in conversation. The goal of the course is to investigate the ways in which speakers rely on knowledge of language and implicit "rules" to enrich and transform the literal content of someone's utterance.

Students will familiarize themselves with some fundamental concepts in linguistic semantics and pragmatics. They will develop analytic skills necessary to analyze a text in an academic context and beyond. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN197H1 - Language and Social Justice

Hours: 24L

This course explores how language is used to construct and reinforce unjust social structures. Topics may include: the underlying sexism, classism, racism, and ableism of prestige dialects and prescriptive language education; the history and consequences of national language movements; language endangerment, documentation, and revival; sign languages and language rights for the deaf and hard-of-hearing; popular media representations of linguistic variation, especially vocal fry, uptalk, and regional accents; and the relationships between language and sex, gender identity, and sexuality.

Students will develop research, analytic, and writing skills through critique and discussion of assigned texts, independent research projects, and regular written and oral presentation of their work. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN198H1 - Language Diversity

Hours: 24L

There are estimated to be about 7000 languages currently spoken in the world. What do they have in common? In what ways are they different? This course will explore these questions, covering such topics as meaning, sound systems, the structure of words, the order of words in sentences, question formation, concepts such as subject and object, tense systems, pronoun systems. We will also discuss language loss and revival. Students will develop analytic skills as they consult published grammars and other resources to address these issues. Students will share their findings through oral and written presentation. Examples will be drawn from a wide range of languages. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN199H1 - Exploring Heritage Languages

Hours: 24L

We will explore how speakers use Heritage Languages in Toronto, using data recently collected in the GTA, so students should be familiar with one of these languages. We will collect, organize and interpret information about heritage languages in Toronto. We will look for speech patterns that differentiate first, second and third generation speakers in Toronto from corresponding speakers in their countries of origin, and look at the effects of cultural and language attitudes and usage.

Students will develop analytic skills as they explore a range of research methods and resources to address these issues. Students will share their findings through oral and written presentation, including online formats. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN200H1 - Introduction to Language

Hours: 24L/12T

Introduction to Language is a general-interest course on language. Possible topics include: the structure of language; how language changes over time, the social and psychological aspects of language, language and culture, the origin of language, writing systems, and language acquisition. (This course does not count towards the Linguistics minor, major, or specialist programs.)

Exclusion: LIN100Y1, LIN101H1, LIN102H1, LIN101H5, LIN102H5, LINA01H3, LINA02H3, ANT253H1, LIN200H5
Breadth Requirements: Thought, Belief and Behaviour (2)

LIN201H1 - Canadian English

Hours: 24L

A study of English spoken in Canada. Topics include: vocabulary items, usage surveys, non-standard dialect enclaves, regional variation and historical development. Students will develop original research projects in linguistics.

Prerequisite: (LIN101H1, LIN102H1)/ LIN200H1
Breadth Requirements: Thought, Belief and Behaviour (2)

LIN202H1 - Introduction to Indigenous Languages of the Americas

Hours: 24L

This is an introduction to Indigenous languages and cultures of Central, North, and South America. Students will be exposed to discussions about what is an indigenous language, social status of indigenous languages as well as indigenous movements towards language documentation and revitalization and language education in the Americas.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN203H1 - English Words

Hours: 24L/12T

English has a rich vocabulary. We will learn how it has developed over time, and investigate aspects of the meaning and pronunciation of words. Most of all, we will study how words are put together, so that students will be able to recognize and analyze unfamiliar words. (This course does not count for the Linguistics major or specialist programs).

Exclusion: LIN203H5, LIN233H5
Breadth Requirements: Thought, Belief and Behaviour (2)

LIN204H1 - English Grammar

Hours: 24L/12T

How the English language works: students analyze a wide variety of English grammatical structures and learn how they vary across dialects and change through time. (This course does not count towards the Linguistics major or specialist programs).

Exclusion: LIN204H5, LINB18H3
Breadth Requirements: Thought, Belief and Behaviour (2)

LIN206H1 - Languages of the World

Hours: 24L/12T

This course is a survey of languages and language families around the world. The course focuses on their linguistic similarities and differences, as well as their historical and social relationships. Course content will be explored through individual and comparative analysis of the linguistic structures of a representative sample of languages. (This course does not count towards the Linguistics major or specialist programs.)

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN207H1 - Language and Technology

Hours: 24L/12T

This course is a survey of the history and nature of language technologies, from the emergence of writing in ancient civilizations to modern large language models. Topics may include literacy, mechanized speech, speech recognition, machine translation, large language models, generative pre-trained transformers, and the ethics of language technologies. Note that this is not a computational linguistics course and does not cover the mathematical foundations or computational implementation of language models in any depth. The focus of this course is on the historical development of language technologies and their relationship to natural languages, language communities, and the field of linguistics. (This course does not count towards the Linguistics major or specialist programs.)

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN208H1 - Linguistic Discrimination and Justice

Hours: 24L/12T

This course explores the relationship between language and unjust social structures and practices, with a focus on discrimination against users of particular language varieties. A key component of the course is understanding and practicing methods from the field of sociolinguistics to identify and combat linguistic discrimination, contextualized through discussion of examples from multiple languages and communities. Topics may include dialect discrimination, language ideologies, language and the law, linguistic colonialism, language rights, prescriptivism, slurs and linguistic abuse, language and gender, and audism. (This course does not count towards the Linguistics major or specialist programs.)

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN211H1 - American Sign Language 1

Hours: 36L

This course is an introductory language course for students with little or no prior knowledge of American Sign Language (ASL). It provides an immersive introduction to ASL, with a focus on basic vocabulary, grammar, conversation, and appropriate behaviours for everyday interactions in a variety of social situations. The language is taught through various immersive activities, such as lecture/discussion, interactive games, and situational conversations, supplemented with readings and videos. A significant emphasis throughout the course is placed on Deaf culture and issues facing the Deaf community. (This

course does not count towards the Linguistics minor, major, or specialist programs).

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN228H1 - Phonetics

Hours: 24L/12T

Phonetics is a linguistics course that investigates the sounds most commonly used in languages from an articulatory and acoustic point of view, with practice in their recognition and production. Students will learn the International Phonetic Alphabet (IPA) and practice transcribing a wide variety of speech sounds.

Exclusion: [LIN228H5](#), [LINB09H3](#)

Recommended Preparation: [LIN101H1](#)/ [LIN200H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN229H1 - Phonological Patterns in Language

Hours: 24L/12T

The nature and organization of phonological systems, with practical work in linguistic analysis.

Prerequisite: [LIN101H1](#), [LIN228H1](#)

Exclusion: [LIN229H5](#), [LINB04H3](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN232H1 - Syntactic Patterns in Language

Hours: 24L/12T

The nature and organization of syntactic systems; their relation to semantic systems and the linguistic organization of discourse; practical work in linguistic analysis.

Prerequisite: [LIN102H1](#)

Exclusion: [LIN232H5](#), [LINB06H3](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN241H1 - Introduction to Semantics

Hours: 24L/12T

An introduction to meaning within linguistics and the interpretation of language in context. Topics include logical and semantic relations, pragmatic concepts such as presupposition and implicature, the nature of thematic roles, quantifiers and scope relations, the expressions of temporal and modal relations in natural language.

Prerequisite: LIN102H1

Exclusion: LIN237H5, LIN247H5, LINC12H3, FREC12H3

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN251H1 - Introduction to Sociolinguistics

Hours: 24L/12T

How does linguistic variation construct identity? Introduction to recent sociolinguistic literature on language contact, multilingualism, code-switching, expressions of ethnic solidarity and regional identity, sex and gender differentiation, dialect geography, sociophonetics, perceptual dialectology, diffusion of norms in mobile populations, documentation of variation in lesser studied languages, and changes across the life-span.

Prerequisite: LIN101H1, LIN102H1

Exclusion: LIN256H5, LINB20H3

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN299H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

LIN299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

LIN302H1 - South American Indigenous Languages

Previous Course Number: PRT368H1

Hours: 36L

This course is an overview of linguistic diversity in South America, centred on Brazilian indigenous languages and peoples. Students will be introduced to current practices in the maintenance and revitalization of Brazilian indigenous languages and current strategies for empowering indigenous peoples (such as training indigenous filmmakers and music production). We will study aspects of the grammar of Brazilian languages through the analysis of small data sets, and we will discuss the influence of Brazilian indigenous languages on Brazilian Portuguese. Not offered every year.

Prerequisite: (LIN101H1, LIN102H1)/ LIN200H1/ ANT253H1

Exclusion: LIN303H1, PRT368H1

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN303H1 - Central American Indigenous Languages

Hours: 36L

This course is about indigenous languages of Central America, focusing on Mayan languages and culture. Students will be introduced to current movements in the maintenance and revitalization of indigenous languages and current strategies for empowering indigenous people (such as training indigenous linguists, music production in indigenous languages, and intercultural bilingual education). Students will also study grammatical features of indigenous languages through the analysis of small data sets, and discuss the contact between indigenous languages and Spanish. Not offered every year.

Prerequisite: (LIN101H1, LIN102H1)/ LIN200H1/ ANT253H1

Exclusion: LIN302H1

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN305H1 - Quantitative Methods in Linguistics

Hours: 36L

Principles of research design, data collection, and a wide variety of statistical techniques for research in various subfields of linguistics.

Prerequisite: LIN101H1, LIN102H1, 1.0 credit in LIN/JAL/JFL/JLP

Exclusion: LIN318H5, LINB29H3

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN306H1 - Language Diversity and Language Universals

Hours: 24L

This linguistics course examines cross-linguistic typological features found in the languages of the world. Special attention is given to describing morphological and syntactic patterns found cross-linguistically. The goal of the course is to draw on the diversity of languages in order to uncover language universals. (Not offered every year)

Prerequisite: LIN232H1

Exclusion: LIN476H5, LINC13H3

Breadth Requirements: Thought, Belief and Behaviour (2)

JLP315H1 - Language Acquisition

Hours: 36L

Infants' abilities at birth, prelinguistic development, the first words, phonological, syntactic and semantic development. Social variables influencing language acquisition, bilingualism, models of development, language play. (Sponsored by the Departments of Linguistics and Psychology, but administered solely by the Dept. of Linguistics).

Prerequisite: 1.0 credit at the 200+ level in LIN/JAL/JUP/PSL/PSY/COG

Exclusion: PSY315H5, PLIC24H3

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN322H1 - Phonological Theory

Hours: 36L

Basic issues in current phonological theory. Problems focusing on analysis and theory. (Students who want to pursue graduate studies in linguistics are strongly advised to include this course in their program.)

Prerequisite: LIN229H1

Exclusion: LIN322H5, LIN329H5, LINC02H3

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN323H1 - Acoustic Phonetics

Hours: 24L

This linguistics course is an introduction to the acoustic phonetics of the vocal tract, including acoustic properties of speech and its analysis using instrumental techniques.

Prerequisite: LIN101H1, LIN102H1, LIN228H1

Exclusion: LIN328H5

Breadth Requirements: The Physical and Mathematical Universes (5)

JAL328H1 - Writing Systems

Hours: 36L

Introduction to writing systems; their historical development, their relationship to language, and their role in culture and society. (Given by the Departments of Anthropology and Linguistics) (Not offered every year)

Prerequisite: ANT100Y1/ LIN101H1/ LIN200H1

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN331H1 - Syntactic Theory

Hours: 36L

A course in syntactic theory and analysis within a current formal framework. (Students who want to pursue graduate studies in linguistics are strongly advised to include this course in their program.)

Prerequisite: LIN232H1

Exclusion: LIN332H5, LINC11H3

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN333H1 - Morphological Patterns in Language

Hours: 36L

The nature and organization of morphological systems, with practical work in linguistic analysis.

Prerequisite: LIN229H1, LIN232H1

Exclusion: LIN231H5, LINB10H3

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN341H1 - Semantic Theory

Hours: 36L

This linguistics course focuses on the study of natural language semantics and the relation between interpretation and syntactic structure. Topics include predication and quantification, scope and anaphora, problems of discourse analysis, the interpretation of different types of pronouns, and ellipsis.

Prerequisite: [LIN241H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN351H1 - Sociolinguistic Patterns in Language

Hours: 24L/12T

In this sociolinguistics course, we explore linguistic variation and its social implications, especially the quantitative study of phonological and grammatical features and their correlations with age, sex, ethnicity, and other social variables.

Prerequisite: [LIN251H1](#), or permission of the instructor

Breadth Requirements: Society and its Institutions (3)

JAL355H1 - Language and Gender

Hours: 24L

An introduction to some of the principal questions of feminist theory, as viewed from sociolinguistics. Topics include: socialization into gendered discourse patterns, cultural and ethnic differences in gendered interactions; the role of language and gender in legal, medical and labour settings; multilingualism, migration, imperialism and nationalism; sexuality, desire and queer linguistics, language, gender and globalization.

Prerequisite: 1.0 credit at the 200-level in LIN/ANT/JAL/SOC/WGS

Recommended Preparation: [ANT204H1](#)/ [ANT253H1](#)/ [SOC200H1](#)/ [SOC214H1](#)

Breadth Requirements: Society and its Institutions (3)

LIN362H1 - Historical Linguistics

Hours: 24L

An introduction to diachronic linguistics. Theories of language change; the comparative method, internal reconstruction, linguistic geography, the origin of languages; language death.

Prerequisite: [LIN229H1](#)

Exclusion: [LIN360H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

JLP374H1 - Psychology of Language

Hours: 36L

In Psychology of Language, we investigate human and other animal communication, structure of human language, word meaning and semantic memory, psychological studies of syntax, bilingualism, language and thought, language errors and disorders. (Sponsored by the Departments of Linguistics and Psychology, but administered solely by the Dept. of Linguistics).

Prerequisite: 1.0 credit from [LIN228H1](#), [LIN229H1](#), [LIN232H1](#), [LIN241H1](#), [PSY260H1](#), [PSY270H1](#), [PSY280H1](#), [PSY290H1](#), [COG250Y1](#)

Exclusion: [LIN258H5](#), [PSY374H5](#), [PLIC55H3](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

JFL388H1 - Bilingualism, Multilingualism, and Second Language Acquisition

Previous Course Number: JFG388H1

Hours: 24L/12T

Using and encountering multiple languages is the everyday norm of people living in much of the world, including in multicultural cities like Toronto. This course offers a broad exploration of the cognitive and social underpinnings of the dynamic field of bilingualism, multilingualism, and second language acquisition. We will (i) explore the differences between bilinguals/multilinguals and monolinguals in the ways they process and use language; (ii) examine the language acquisition patterns of children and adults; (iii) investigate the interactions between an individual's language repertoires and those of their peers and local community.

Prerequisite: 4.0 credits, and any 100-level or higher language course OR introductory linguistics course (e.g., [LIN200H1](#), [FRE272H1](#), [ITA360H1](#), [SLA323H1](#))

SLA380H1, SPA322H1)

Exclusion: FRE388H1, JFG388H1

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

LIN398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

LIN399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

JAL401H1 - Field Linguistics

Hours: 48P

Field Linguistics provides practice in language analysis based on elicited data from a native speaker of an indigenous or foreign language, emphasizing procedures and techniques. (Given by the Departments of Anthropology and Linguistics)

Prerequisite: Completion of LIN322H1 and LIN331H1 or permission of the instructor

Exclusion: LIND46H3

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN402H1 - Linguistic Typology and Constructed Languages

Hours: 36L

This course uses constructed languages (e.g., Esperanto, Klingon, Dothraki) to explore crosslinguistic patterns in language structure. Topics include phonological and morphosyntactic typology, language change over time, effects of culture and environment on language, history of language construction, standards in writing descriptive grammars, and critical analysis of research on language diversity.

Prerequisite: 5 required 200-level courses (LIN228H1, LIN229H1, LIN232H1, LIN241H1, LIN251H1), AND LIN322H1 Phonological Theory OR LIN331H1 Syntactic Theory, or permission of the instructor.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN405H1 - Advanced Quantitative Methods in Linguistics

Hours: 36L

This course introduces advanced statistical modeling techniques using the statistical software R, tailored specifically to the needs of linguistic research.

Prerequisite: LIN305H1

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN409H1 - Structure of a Specific Language

Hours: 24L

Topics may include: the phonological, morphological, syntactic, and semantic systems; the writing system; a brief diachronic sketch; linguistic variation and sociolinguistic aspects. (Not offered every year).

Prerequisite: LIN228H1, LIN229H1, LIN232H1, 1.0 credit at the 300/400- level in LIN/JAL/JFL/JLP/JLS

Exclusion: LIN479H5 or LINC61H3 if the same language was analyzed.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN423H1 - Phonetic Analysis

Hours: 36S

This course provides students with hands-on experience with main methods of linguistic phonetic (acoustic and articulatory) analysis through project-based group work and training in writing up experimental results.

Prerequisite: [LIN323H1](#)

Exclusion: [LIND09H3](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

LIN429H1 - Research in Phonology

Hours: 24S

Research in Phonological Theory, including guided instruction in how to undertake critical reading of primary literature, develop an original topic, write a research paper, an abstract, a handout, and give an oral presentation. Not eligible for CR/NCR option.

Prerequisite: [LIN322H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN432H1 - Advanced Morphology

Hours: 24L

Current research involving morphology, including the role of morphology in the grammar, the nature of inflectional paradigms, affixes affecting grammatical relations constitute this linguistics course. Each year one topic will be a special focus and will be dealt with at length. (Not offered every year)

Prerequisite: [LIN333H1](#)

Corequisite: [LIN331H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN439H1 - Research in Syntax

Hours: 24S

Research in Syntactic Theory, including guided instruction in how to undertake critical reading of primary literature, develop an original topic, write a linguistics research paper, an abstract, a handout, and give an oral presentation. Not eligible for CR/NCR option. (Not offered every year)

Prerequisite: [LIN331H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN441H1 - Advanced Semantics and Pragmatics

Hours: 24S

This course covers current research in formal semantics and pragmatics. Topics may vary from year to year. The course is intended to be a seminar-style course; it includes reading primary literature and writing a research paper.

Prerequisite: [LIN341H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN451H1 - Urban Dialectology

Hours: 24L

Ways in which urban sub-cultures differ in their use of language. How speakers dialects reflect their ethnicity, group affiliation, and other social categories. Practice in dialect analysis based on data from the speech community, emphasizing procedures and techniques.

Prerequisite: [LIN351H1](#) plus 2.0 credits at the 200+ level in LIN/JAL/JLP

Breadth Requirements: Society and its Institutions (3)

LIN456H1 - Language Variation and Change: Theory and Analysis

Hours: 36L

The theory and practice of sociolinguistics. The inter-relationship between language and society from the perspective of collecting, organizing, and analyzing patterns in natural speech data, including field methods and quantitative methods for correlating linguistic and social variables.

Prerequisite: [LIN351H1](#)

Exclusion: [LIN458H5](#)

Breadth Requirements: Society and its Institutions (3)

LIN458H1 - Revitalizing Languages

Hours: 24L

A study of language endangerment and language revitalization efforts. The languages of focus will vary from year to year, depending on the instructor. Topics include language classification and a survey of major features of the languages, what it means for a language to be

endangered, the factors that contribute to language shift, and efforts to reverse language shift, including discussion of literacy, documentary linguistics and dictionaries.

Prerequisite: LIN101H1, LIN102H1 plus 2.0 credits at the 200+ level in LIN/JAL

Breadth Requirements: Society and its Institutions (3)

JLP471H1 - Advanced Psycholinguistics

Hours: 24S

Seminar in advanced topics in psycholinguistics. Content varies from year to year. (Sponsored by the Departments of Linguistics and Psychology, but administered solely by the Dept. of Linguistics).

Prerequisite: JLP374H1

Breadth Requirements: Thought, Belief and Behaviour (2)

JLS472H1 - Child Language Disorders

Hours: 36L

Students are introduced to the etiologies and characteristics of speech and language disorders in children, associated with autism, intellectual disabilities, and specific language impairment. Theoretical underpinnings of the major intervention approaches for children with speech and language disorders are discussed. (Given by the Departments of Linguistics and Speech Language Pathology)

Prerequisite: LIN101H1, LIN102H1, LIN228H1, and 1.0 credit at the 300+ level

Breadth Requirements: Living Things and Their Environment (4)

JLS473H1 - Adult Speech and Language Disorders

Hours: 36L

Students are introduced to the etiologies and characteristics of speech and language disorders in adults, associated with aphasia, neurodegenerative disorders, and head injuries. The effects of communication handicaps on the individual and theoretical underpinnings of the major intervention approaches for adults are discussed. Given by the Departments of Linguistics and Speech Language Pathology. (Not offered every year)

Prerequisite: LIN101H1, LIN102H1, and 1.0 credit at the 300+ level

Breadth Requirements: Living Things and Their Environment (4)

JLS475H1 - Literacy and Reading Disorders

Hours: 36L

Literacy and Reading Disorders is an introduction to the typical development of emergent literacy skills, including oral language, phonological awareness, narratives, and emergent writing in children; a discussion of the effects of language disorders on emergent literacy skills; a survey of approaches to intervention for children's emergent literacy skills. Given by the Departments of Linguistics and Speech Language Pathology. (Not offered every year)

Prerequisite: LIN101H1, LIN102H1, and 1.0 credit at the 300+ level

Breadth Requirements: Living Things and Their Environment (4)

JLS476H1 - Linguistics in the Workforce: Clinical Practice and Research

Hours: 36S

This course exposes students to research and practical approaches in the context of health professions of relevance to linguistics students, especially audiology and speech-language pathology. Students learn about evidence-informed practice, research methodologies, practice approaches and theories in the health professions. Students will be poised to benefit from optional service learning placements during or following the course, in research laboratories or clinical settings. Successful completion of this course provides students with exposure and experience of use in their applications to audiology, speech-language pathology, and other clinical programs and in their future health or graduate studies. Not eligible for CR/NCR option. (Not offered every year).

Prerequisite: LIN101H1, LIN102H1, and 1.0 credit at the 200+ level

Breadth Requirements: Living Things and Their Environment (4)

LIN481H1 - Introduction to Analysis and Argumentation

Hours: 36L

Linguistic argumentation, practice in constructing and evaluating hypotheses, and critical evaluation of representative articles. Emphasis on the structure of arguments rather than on the analysis of a particular language.

Prerequisite: LIN322H1/ LIN331H1

Exclusion: LIN411H5, LINC10H3

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN490H1 - Special Topics in Linguistics

Hours: 24S

A specific topic in linguistics will be explored in depth in Special Topics in Linguistics. Students will learn about a narrowly-focused area of linguistics, including guided instruction in how to undertake critical reading of primary literature, develop a research topic and write a linguistics research paper. Not eligible for CR/NCR option. (Not offered every year)

Prerequisite: 2.0 LIN credits at the 200+ level, of which 1.0 LIN credit must be at the 300+ level. Permission of the instructor will also be required.

Breadth Requirements: Thought, Belief and Behaviour (2)

LIN495Y1 - Individual Project

A research or reading project in linguistics undertaken by the student under the supervision of a staff member. Open only when a faculty member is willing and available to supervise. Students are required to submit an application to the department by the first day of classes or earlier (preferred). Not eligible for CR/NCR option.

Application found at
<https://www.linguistics.utoronto.ca/undergraduate/curriculum-course-information/research-opportunities-and-independent-studies>.

Prerequisite: At least 10.0 credits, including 3.0 credits from LIN/ JAL/ JFL/ JLP/ JLS (excluding LIN200H1, LIN203H1, LIN204H1, LIN211H1)

LIN496H1 - Individual Project

A research or reading project in linguistics undertaken by the student under the supervision of a staff member. Open only when a faculty member is willing and available to supervise. Students are required to submit an application to the department by the first day of classes or earlier (preferred). Not eligible for CR/NCR option.

Application found at
<https://www.linguistics.utoronto.ca/undergraduate/curriculum-course-information/research-opportunities-and-independent-studies>.

Prerequisite: At least 10.0 credits, including 3.0 credits from LIN/ JAL/ JFL/ JLP/ JLS (excluding LIN200H1, LIN203H1, LIN204H1, LIN211H1)

LIN497Y1 - Individual Project

A research or reading project in linguistics undertaken by the student under the supervision of a staff member. Open only when a faculty member is willing and available to supervise. Students are required to submit an application to the department by the first day of classes or earlier (preferred). Not eligible for CR/NCR option.

Application found at
<https://www.linguistics.utoronto.ca/undergraduate/curriculum-course-information/research-opportunities-and-independent-studies>.

Prerequisite: At least 10.0 credits, including 3.0 credits from LIN/ JAL/ JFL/ JLP/ JLS (excluding LIN200H1, LIN203H1, LIN204H1, LIN211H1)

LIN498H1 - Individual Project

A research or reading project in linguistics undertaken by the student under the supervision of a staff member. Open only when a faculty member is willing and available to supervise. Students are required to submit an application to the department by the first day of classes or earlier (preferred). Not eligible for CR/NCR option.

Application found at
<https://www.linguistics.utoronto.ca/undergraduate/curriculum-course-information/research-opportunities-and-independent-studies>.

Prerequisite: At least 10.0 credits, including 3.0 credits from LIN/ JAL/ JFL/ JLP/ JLS (excluding LIN200H1, LIN203H1, LIN204H1, LIN211H1)

LIN499H1 - Individual Project

A research or reading project in linguistics undertaken by the student under the supervision of a staff member. Open only when a faculty member is willing and available to supervise. Students are required to submit an application to the department by the first day of classes or earlier (preferred). Not eligible for CR/NCR option.

Application found at
<https://www.linguistics.utoronto.ca/undergraduate/curriculum-course-information/research-opportunities-and-independent-studies>.

Prerequisite: At least 10.0 credits, including 3.0 credits from LIN/ JAL/ JFL/ JLP/ JLS (excluding LIN200H1, LIN203H1, LIN204H1, LIN211H1)

Materials Science

Introduction

Materials science is the study of the structure, properties and applications of all types of materials including metals, ceramics, glasses and polymers. Currently many exciting scientific developments are in the materials field. Notable advances have been made recently in studies of amorphous metals, the quasicrystalline state, liquid crystals, semiconductors, nanostructured materials, high critical temperature superconductors, biomaterials, high strength polymers, materials processing techniques such as ion implantation and laser melting, and in new categories of engineered materials such as advanced industrial ceramics or composite materials.

Materials science is interdisciplinary, drawing on the basic sciences of chemistry and physics and on more applied subjects such as metallurgy, ceramics and polymer science. Its tools and techniques include electron microscopy, x-ray diffraction, surface analysis using Auger emission spectroscopy, x-ray photoelectron spectroscopy, etc.

Materials Engineering, Processing and Application, MSE120H1, is designed to appeal to a wide variety of student interests. Other materials science courses are available to students having the prescribed prerequisites and the approval of the Undergraduate Student Counsellor. The specialist program in Materials Science is coordinated jointly by the Departments of Chemistry and Materials Science and Engineering. For further information on the program, consult the undergraduate coordinators for both departments.

Materials Science Programs

Materials Science Specialist (Science Program) - ASSPE2424

Consult Professor Andrew Dicks, Department of Chemistry.

This program draws both on the basic sciences of chemistry and physics, and on the more applied areas such as metallurgy or ceramics. Courses dealing with these latter fields are offered through the Department of Materials Science in the Faculty of Applied Science and Engineering. This is an appropriate program for students

with career interests in solid-state, polymer, or composite materials industries, or for graduate work in either chemistry or materials science, with an appropriate choice of options. Students may follow the Materials Chemistry path by taking the research course CHM499Y1 or the Materials Science and Engineering path by taking the research courses MSE492H1 and MSE493H1. This program is accredited by the Canadian Society for Chemistry.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- (CHM135H1, CHM136H1) (63% in each)/ CHM151Y1 (63%)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Materials Science Specialist in the Summer after Year 2.

Completion Requirements:

(14.0 credits, including 1.0 credit from 400-level courses)

First Year:

1. BIO120H1
2. CHM151Y1 (strongly recommended)/ (CHM135H1, CHM136H1)
3. (MAT135H1, MAT136H1)/ MAT137Y1/
MAT157Y1
4. MSE120H1

First or Second Year:

1. BIO130H1/ BIO220H1
2. (PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Second Year and Higher Years:

1. CHM220H1/ CHM222H1/ MSE202H1*,
CHM223H1, (CHM236H1, CHM237H1)/
CHM238Y1, CHM247H1/ CHM249H1
2. MSE219H1, (MSE218H1/ MSE318H1),
MSE335H1
3. CHM327H1, CHM338H1, CHM343H1/
CHM348H1, CHM325H1/ CHM355H1,
CHM434H1/ CHM455H1, CHM426H1/
CHM457H1
4. At least 1.5 credits from the following, of which 0.5 credit must be at the 400-level: MSE302H1,
MSE316H1, MSE343H1, CHM446H1/
CHM456H1, CHM458H1, MSE415H1,
MSE419H1, MSE430H1, MSE431H1, (
MSE432H1/ MSE443H1), MSE440H1,
MSE458H1, MSE459H1, MSE461H1, MSE465H1
5. CHM499Y1/ (MSE492H1, MSE493H1)

*It is highly recommended that students in the Materials Science Specialist Program complete MSE202H1.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Materials Science Courses

MSE120H1 - Materials Engineering, Processing and Application

Hours: 38.4L/6.4T/12.8P

This course covers an introduction to the field of materials science and engineering following a design-led approach. Application areas such as stiffness-limited design, fracture-limited design, strength-limited design will be used to guide further investigations into elements of the processing-structure-properties-performance paradigm. Topics covered will include material property charts, computer-aided design and materials selection, crystallographic planes and directions, crystal structures, stiffness, strength, plasticity, yielding, ductility, fracture and fracture toughness, cyclic loading and fatigue, friction and wear, thermal properties of materials, electrical properties, optical properties, materials corrosion, and materials processing.

MSE218H1 - Phase Transformations

Hours: 39L/13T/20P

A key part of MSE is focused on explaining how material systems transform from one condensed phase to another. These phase transformations are a critical aspect of understanding the behaviour of a material. MSE 218

Regarding Materials Science Courses

Notes

1. The MSE courses below are administered by the Faculty of Applied Science and Engineering, and are subject to the rules and regulations of that Faculty, including those for term dates, examination periods and deferral practices.
2. The CHM courses listed for the Materials Science program are described in the Chemistry section of this Calendar.
3. Enrollment in MSE courses is done through your own College Registrar. It is not necessary to petition as the courses listed below have been pre-approved for this Specialist Program.
4. Deferment of Final Exams is NOT generally granted in the Faculty of Applied Science and Engineering.

builds on the thermodynamics and phase stability of MSE 202 and runs in parallel to the rates of transformation seen in MSE 217. In MSE 218 we will consider phase transformations in one component, two component, and multicomponent systems. We will look at both diffusional and diffusionless transformations, focusing on the nucleation and growth aspects of each case. Specific examples will include: solidification, precipitation, recrystallization, spinodal, massive, and order-disorder transformations. Both experimental and computational labs will be used to outline specific transformations in more depth.

MSE219H1 - Structure and Characterization of Materials

Hours: 39L/13T/39P

Introduction to two and three-dimensional crystallography and crystal structures of solids. Topics include: Pearson and Hermann-Mauguin symbols, reciprocal space, point group and space group symmetry analysis, stereographic projections. Introduction to tensor analysis of crystalline material properties, and symmetry breakdown by imperfections in crystals. Experimental techniques used to interpret structure and chemistry of solids and their defects will be covered theoretically and in the laboratory including: X-ray diffractometry, optical, electron and scanning probe microscopy, and surface/bulk spectroscopies based on optical, X-ray, electron and ion-beam analysis methods.

MSE316H1 - Mechanical Behaviour of Materials

Hours: 38.4L/12.8T/25.6P

The mechanical behaviour of engineering materials including metals, alloys, ceramics and polymeric materials. The following topics will be discussed: macro- and micro-structural response of materials to external loads; load-displacement and stress-strain relationships, processes and mechanisms of elastic, visco-elastic, plastic and creep deformation, crystallographic aspects of plastic flow, effect of defects on mechanical behaviour, strain hardening theory, strengthening mechanisms and mechanical testing.

MSE335H1 - Materials Physics

Hours: 38.4L/25.6T

Application of solid state physics to describe properties of materials. Thermal properties of solids: lattice vibrations (phonons), heat capacity, thermal conductivity. Electrical properties of metals: simple circuits, resistivity of metals (classical and quantum descriptions), Seebeck, Peltier, and Thomson effects. Electrical properties of semiconductors: band structure and occupancy, conductivity, Hall effect, simple devices. Electrical properties of insulators: polarization, capacitance, optical properties, ferroelectric and piezoelectric materials. Magnetic properties: diamagnetism and paramagnetism, ferromagnetic and ferrimagnetic materials, magnetic domains, B-H curves.

MSE343H1 - Biomaterials

Hours: 26L/13P

Provides an overview of the field of biomaterials, introducing fundamental biological and materials design and selection concepts, and is open to CHE students. Key applications of materials for biomedical devices will be covered, along with an introduction to the expected biological responses. The concept of biocompatibility will be introduced along with the essential elements of biology related to an understanding of this criterion for biomaterial selection and implant design. In addition, structure-property relationships in both biological and bio-inspired materials will be highlighted.

MSE351H1 - Design and Sim of Materials Processes

Hours: 36L/12T/24P

An overview of computer modeling approaches to analyze various macro-scale phenomena involved in materials processing, product design, and manufacturing. These approaches will include weighted residual methods, finite element and finite difference methods, computational fluid dynamics, and multiphysics simulations. The students will apply these methods to study heat transfer, fluid flow, stress analysis, structural dynamics, and coupled behavior. Practical experience will be provided on commercial finite element (FE) and computer-aided design (CAD) packages such as ANSYS and SOLIDWORKS.

MSE430H1 - Electronic Materials

Hours: 26L/13T

Materials parameters and electronic properties of semiconductors are discussed as basic factors in the engineering of semiconductor devices. Materials parameters are related to preparation and processing methods, and thus to the electronic properties. The implications of materials parameters and properties on selected simple devices are discussed.

MSE440H1 - Emerging Applications in Biomaterials

Hours: 39L/13T

Currently used biomaterials for formation of surgical implants and dental restorations include selected metals, polymers, ceramics, and composites. The selection and processing of these materials to satisfy biocompatibility and functional requirements for applications in selected areas will be presented. Materials used for forming scaffolds for tissue engineering, and strategies for repair, regeneration and augmentation of degenerated or traumatized tissues will be reviewed with a focus on biocompatibility issues and required functionality for the intended applications.

Prerequisite: MSE343H1 or equivalent

MSE459H1 - Synthesis of Nanostructured Materials

Exclusion: CHM499Y1

Hours: 39L/26P

Various synthesis techniques to produce nanostructured materials will be introduced. These include methods involving the vapor phase (physical and chemical vapor deposition, organometallic chemical vapor deposition), the liquid phase (rapid solidification, spark erosion), the solid phase, (mechanical attrition, equal channel deformation) as well techniques producing these structures from solution (electrodeposition, electroless processing, precipitation). Secondary processing techniques to produce final products or devices will also be discussed.

MSE461H1 - Engineered Ceramics

Hours: 39L/24T

The unique combinations of physical, electrical, magnetic, and thermomechanical properties exhibited by advanced technical ceramics has led to a wide range of applications including automobile exhaust sensors and fuel cells, high speed cutting tool inserts and ball bearings, thermal barrier coatings for turbine engines, and surgical implants. This course examines the crystal and defect structures which determine the electrical and mass transport behaviours and the effects of microstructure on optical, magnetic, dielectric, and thermomechanical properties. The influence of these structure-property relations on the performance of ceramic materials in specific applications such as sensors, solid oxide fuel cells, magnets, and structural components is explored.

MSE498Y1 - Capstone Project: Design of Materials Processes

Hours: 12.8L/25.6T/12.8P

The students, working in small groups complete a project involving design of a materials processing plant, leading to a design report delivered at the conclusion of the course. The topics covered in the lectures and design process include basic materials processing flowsheet for primary processing and recycling of materials, materials and energy balance of individual units and of overall process flowsheets, use of computer software for flowsheet evaluation, translating process flowsheets to resource and utility requirements, energy analysis, capital/operating cost, basics of equipment sizing, operation scheduling, safety and HAZOP, plant layout, and design for sustainability.

Mathematics

Faculty List

Professor and Chair of the Department

R. Jerrard, MSc, PhD, FRSC

Professor and Associate Chair (Research)

D. Panchenko, BS, MS, PhD

Professor and Associate Chair (Graduate)

I. Uriarte-Tuero, BSc, MSc, MPhil, PhD

Professor and Associate Chair (Undergraduate)

S. Yoshinobu, BA, MA, PhD

University Professors

J. Friedlander, MA, PhD, FRSC (UTSC)

I.M. Sigal, BA, PhD, FRSC

Professors

S. Alexakis, BA, PhD

D. Bar-Natan, BSc, PhD

E. Bierstone, MA, PhD, FRSC

I. Binder, BSc, MSc, PhD (UTM)

A. Braverman, BSc, PhD

J. Bremer, BSc, BSc, P D (UTSC)

A. Burchard, MS, PhD

G. Elliott, BSc, PhD, FRSC

M. Gualtieri, BSc, PhD

F. Herzig, BA, PhD

V. Ivrii, MA, PhD, Dr Math, FRSC

L. Jeffrey, AB, PhD, FRSC (UTSC)

R. Jerrard, MSc, PhD, FRSC

V. Kapovitch, BSc, PhD

Y. Karshon, BSc, PhD (UTM)

K. Khanin, MSc, PhD (UTM)

B. Khesin, MSc, PhD

A. Khovanskii, MSc, PhD

H. Kim, BSc, PhD

S. Kudla, BA, MA, PhD, FRSC

R. McCann, BSc, PhD, FRSC

E. Meinrenken, BSc, PhD, FRSC

E. Murphy, BS, PhD (UTM)

K. Murty, BSc, PhD, FRSC

A. Nabutovsky, MSc, PhD

A. Nachman, BSc, PhD

D. Panchenko, BSc, MSc, PhD

M. Pugh, BSc, PhD

J. Quastel, MSc, PhD, FRSC

K. Rafi, BSc, PhD

J. Repka, BSc, PhD (U)

R. Rotman BA, PhD

L. Seco, BA, PhD (UTM)

C. Sulem, MSc, Dr D'Etat, FRSC

S. Todorcevic, BSc, PhD, FRSC

J. Tsimmerman, BSc, PhD

I. Uriarte-Tuero, BSc, MSc, MPhil, PhD

B. Virag, BA, PhD (UTSC)

M. Yampolsky, BSc, PhD (UTM)

Associate Professors

S. Aretakis, MA, PhD (UTSC)

T. Collins, BSc, PhD

J. de Simoi, BSc, MSc, PhD (UTM)

R. Haslhofer, BSc, MSc, PhD (UTSC)

S. Kopparty, BSc, MSc, PhD

F. Pusateri, MS, PhD

B. Rossman, BA, MA, PhD

N. Rozenblyum, PhD

S. Saraf, BSc, MSc, PhD

A. Shankar (UTM), BSc, PhD

A. Stinchcombe, BMath, PhD

G. Tiozzo, BA, MA, PhD (UTSC)

K. Zhang (UTM), BSc, PhD

Associate Professor, Teaching Stream

B. Galvao-Sousa, BSc, MSc, PhD

S. Yoshinobu, BA, MA, PhD

Assistant Professors

N. Bogachev, MSc, PhD (UTSC)

D. Dauvergne, PhD (UTM)

J. Desjardins, BSc, MSc, MSc, PhD (UTM, CLTA)

E. Elmanto BS, PhD (UTSC)

M. Groechenig, BSc, DPhil (UTM)

A. Kupers, BSc, BSc, MSc, PhD (UTSC)

B. Landon, BSc, MSc, PhD

J. Lefebvre, BSc, PhD

Y. Liokumovich, BSc, MSc, PhD (UTM)

D. Litt, BA, PhD

M. Mavraki, BSc, MSc, PhD

S. Olano, BSc, MSc, PhD (CLTA)

W. Pan, BS, PhD

V. Papyan, PhD

K. Serkh, PhD

Y. Shlapentokh-Rothman, PhD (UTM)

H. Spink, BA, MA, PhD

S. Unger, PhD (UTM)

I. Varma, BSc, MSc, PhD

W. Yu, PhD (UTSC)

Assistant Professors, Teaching Stream

C. Blois, BSc, MSc, PhD

X. Cui, BSc, MSc, PhD (CLTA)

S. Homayouni, BSc, PhD

N. Jung, BA, MSc, PhD

C. Karimian Pour, PhD

D. Karlidis, PhD (CLTA)

J. Kawach, BSc, MSc, PhD

J. Korman, PhD

S. Mayes-Tang, Bc, MS, PhD

F. Parsch, BSc, MSc, PhD

P. Sargent, PhD

L. Shorser, BSc, MSc, PhD

J. Siefken, HBS, MS, PhD

S. Uppal, BSc, MSc
A. Zaman, BSc, MSc, PhD

Lecturers

E.A.P. LeBlanc, MA, PhD

Professors Emeriti

M.A. Akcoglu, MSc, PhD, FRSC
J.G. Arthur, MA, PhD, FRSC, FRS
E.J. Barbeau, MA PhD (U)
J. Bland, MSc, PhD
T. Bloom, MA, PhD, FRSC
M. D. Choi, MA, P D, FRSC
H.C. Davis, MA, PhD (N)
E.W. Eilers, Dr Rer Nat
I.R. Graham, BSc, PhD (UTM)
S. Halperin, MSc, PhD, FRSC
V. Jurdjevic, MS, PhD
J.W. Lorimer, MSc, PhD (U)
E. Mendelsohn, MSc, PhD (UTSC)
P. Milman, Dipl Maths, P D, FRSC
K. Murasugi, MA, DSc, FRSC
F. Murnaghan, MSc, PhD
P. Rosenthal, MA, PhD, LLB
P. Selick, BSc, MA, PhD (UTSC)
D.K. Sen, MSc, Dr s Sc
F. D. Tall, AB, PhD (UTM)
W.A.R. Weiss, MSc, PhD (UTM)

Associate Professors Emeriti

N.A. Derzko, BSc, PhD
J. Scherk, DPhil (UTSC)
S.M. Tanny, BSc, PhD (UTM)

Associate Professors Emeriti, Teaching Stream

D. Burbulla, BSc, BEd, MA
A. Igelfeld, MSc
A. Lam, MSc

Senior Lecturers Emeriti

F. Recio, MSc, PhD

real and complex analysis, ordinary and partial differential equations, differential geometry, topology, commutative algebra, graph theory, mathematical logic, number theory, and functional analysis.

The department offers eight specialist programs in addition to the major and minor programs.

In the Mathematics, Applied Mathematics, Mathematics and Physics, and Mathematics and Philosophy specialist programs, students acquire an in-depth knowledge and expertise in mathematical reasoning and the language of mathematics, with its emphasis on rigor and precision. These programs are designed for students wishing to pursue graduate studies; most of the graduates of these programs continue on to graduate school with some of them gaining admission to the world's best graduate schools.

The Mathematical Applications in Economics and Finance specialist program is designed to prepare students for direct entry into the world of finance. It can also serve as a gateway to an MBA or a Master of Finance degree, possibly followed by an eventual doctorate.

The Mathematics and its Applications specialist programs offer three areas of concentration: teaching, physical science, and probability/statistics. These specialist programs are designed as 'enhanced double majors.' The required courses for these concentrations are almost identical for the first two years, but they diverge in the upper years. Students in these programs can also continue on to graduate studies.

The Major and Minor programs are intended for students who want to combine mathematical skills with work in other subjects. These programs require less coursework than the specialist programs, but still require the completion of some upper year mathematics courses.

Students interested in becoming K-12 teachers should consider applying to the combined degree program --- a six-year program that leads to an Honours Bachelor of Science (HBSc) from the University of Toronto and a Master of Teaching (MT) from the Ontario Institute for Studies in Education (OISE). The HBSc part of this program involves completing a Math Major, a Minor in Education and Society (offered by Victoria College) and a Minor in an area that would lead to a second "teachable" subject. Please see the Victoria College website for more information.

Arts & Science Internship Program

As of Fall 2021, the new Arts & Science Internship Program (ASIP) stream is available to students who are entering Year 2 or Year 3 of study and enrolled in the

Introduction

Mathematics is the study of shape, quantity, pattern and structure. It serves as a tool for our scientific understanding of the world. Knowledge of mathematics opens gateways to many different professions such as economics, finance, computing, engineering, and the natural sciences. Aside from practical considerations, mathematics can be a highly satisfying intellectual pursuit, with career opportunities in teaching and research.

The department counts many of Canada's leading research mathematicians among its faculty. Our mathematics programs are flexible, allowing students to select courses based on specialization and interest. Contents range from calculus and linear algebra in the non-specialist programs to more advanced topics such as

Mathematics Specialist, Applied Mathematics Specialist, Mathematics & Physics Specialist, Mathematics & Philosophy Specialist, Mathematical Applications in Economics & Finance Specialist, Mathematics & its Applications Specialist, and Mathematics Major.

Enrolment is limited and requires a supplemental application. Students enrolled in the ASIP stream will be required to complete mandatory Professional Development programming plus a minimum of 12 and maximum of 20 months (Year 2 entry) or a minimum of 12 and maximum of 16 months (Year 3 entry) of paid, full-time work experience. The time to degree completion for students enrolled in ASIP will normally be 5 years. There is an additional cost to participate in the ASIP stream.

Students will typically be admitted to the ASIP stream for the Fall term of Year 2 of study, however, in exceptional circumstances students, including transfer students, who enrolled in an eligible program in the Summer after Year 2 can be admitted to the ASIP stream for the Fall of Year 3. Acceptance into an ASIP stream in Year 3 is dependent on space and requires approval of the student's academic unit and the Faculty of Arts & Science Experiential Learning & Outreach Support (ELOS) Office. Please refer to the [ASIP eligibility page](#) for further details.

Further details about ASIP, including eligibility requirements and application procedures, can be found [here](#). Students may also visit the [ASIP webpage](#) or contact the ELOS office at asip@utoronto.ca.

Introductory Courses

The Department of Mathematics offers introductory courses for incoming students to foster the development of mathematics skills.

PUMP Level 1 and PUMP Level 2 (Preparing for University Mathematics Program)

Both programs are non-credit courses that equip students with the necessary background knowledge required to succeed in first year mathematics courses. The content for the courses may be viewed at <https://www.mathematics.utoronto.ca/undergraduate/prospective-students/preparing-university-math-program-pump>.

PUMP Level 1 provides a quick math review during the months of July and August, for students who would like to take six weeks prior to the start of the first semester to practice pre-calculus math skills. During other terms, it is scheduled as a longer course, for students who have not taken the appropriate high school mathematics prerequisites for university calculus and linear algebra. This course is recommended for any student who wish to

close any existing gap between high school math and University level math courses or anyone who wishes to review high school math before attempting University level math or other science courses.

PUMP Level 2 is an Introduction to Proofs course. The curriculum provides background knowledge that is a preparation for [MAT137Y1](#), [MAT157Y1](#), [MAT240H1](#), [MAT247H1](#), [MAT237Y1](#), and other proof-oriented advanced courses. The course covers the reading and comprehension of mathematical statements, analyzing definitions and properties, formulation of arguments, and strategies for proofs. This course is recommended for any student who wish to add to their knowledge by joining the group of students who will commence their preparation for the more challenging concepts in the advance analytical programs, during the months of July and August.

Visit

<https://www.mathematics.utoronto.ca/undergraduate/prospective-students/PUMP-courses> for up-to-date information on the availability of PUMP Level 1 and PUMP Level 2.

If you have questions about the content of these courses, e-mail 1styear@math.toronto.edu.

Contact Information

First Year Inquiries: 1styear@math.toronto.edu
Program Inquiries: math.undergrad@utoronto.ca

Bahen Centre, Room 6291

Departmental Office: Bahen Centre, Room 6290 (416-978-3323)

Website: <https://www.mathematics.utoronto.ca/undergraduate>

Mathematics Programs

Mathematics Specialist (Science Program) - ASSPE1165

The Specialist Program in Mathematics is directed toward students who aim to pursue mathematical research as a career.

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\) stream](#).

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students are encouraged to take their introductory analysis and algebra in their first year of study ([MAT157Y1](#), [MAT240H1](#), [MAT247H1](#)).

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the [Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Mathematics Specialist in the Summer after Year 2.

Completion Requirements:

12.5 credits, including at least 3.0 credits at the 400-level

Mathematics Fundamentals

1. Analysis: [MAT157Y1](#), [MAT257Y1](#)
2. Algebra: [MAT240H1](#), [MAT247H1](#)
3. Advanced Ordinary Differential Equations: [MAT267H1](#)

Ethical and Social Responsibility

4. 0.5 credit with a significant emphasis on ethics and social responsibility (list below)

Higher Studies in Mathematics

5. Topology: [MAT327H1](#)
6. Groups, Rings and Fields: [MAT347Y1](#)
7. Partial Differential Equations: [MAT351Y1](#)
8. Complex and Real Analysis: [MAT354H1](#), [MAT357H1](#)
9. Geometry: [MAT363H1](#)/ [MAT367H1](#)
10. Advanced Topics: 4.0 credits of further APM/MAT 300+ level courses including at least 2.5 credits of APM/MAT courses at the 400-level

Research Seminar in Mathematics

11. [MAT477H1](#)

Notes:

- Not all courses listed have priority enrolment for students enrolled in this program. Students are

responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.

- Each course can count toward only one requirement, even if listed as options to multiple requisites of the program.
- Students may use CR/NCR on the course they use toward the ethics and social responsibility credits.
- Students in their last year of study with a cGPA of 3.5 or higher may be permitted to take up to 1.5 credits of Math graduate courses. These courses may count toward specialist program requirements, where relevant (e.g., as courses “at the 400-level”). To review eligibility criteria and apply for graduate courses as an undergraduate student, find more information on the A&S Math Website.
- To enrich your studies in mathematics, students in the Mathematics Specialists are encouraged to take [PHY151H1](#) and [PHY152H1](#) in the first year of study, as well as [CSC148H1](#) and [STA257H1](#) before graduation. If a student has not taken a year-long high school programming course, students are advised to take [CSC108H1](#) prior to [CSC148H1](#).

Courses accepted towards this program's ethics requirement:

[CSC300H1](#)/ [CSE240H1](#)/ [CSE270H1](#)/ [EEB215H1](#)/ [ENV200H1](#)/ [ESS205H1](#)/ any ETH200+/ [FOR201H1](#)/ [HIS286H1](#)/ [HPS200H1](#)/ [HPS202H1](#)/ [INS200H1](#)/ [JPH441H1](#)/ [PHL265H1](#)/ [PHL271H1](#)/ [PHL273H1](#)/ [PHL275H1](#)/ [PHL281H1](#)/ [PHL295H1](#)/ [SDS256H1](#)/ another suitable course with permission from the Associate Chair, Undergraduate

Applied Mathematics Specialist (Science Program) - ASSPE2053

The Specialist Program in Applied Mathematics is directed toward students who aim to pursue applied mathematical research as a career.

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\) stream](#).

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students are encouraged to take their introductory analysis, algebra, and computer programming in their first

year of study ([MAT157Y1](#), [MAT240H1](#), [MAT247H1](#), [CSC108H1](#), [CSC148H1](#)).

Completion Requirements:

13.0-13.5 credits, including at least 1.5 credits at the 400-level

Applied Mathematics Fundamentals

1. Analysis: [MAT157Y1](#), [MAT257Y1](#)
2. Algebra: [MAT240H1](#), [MAT247H1](#)
3. Advanced Ordinary Differential Equations: [MAT267H1](#)
4. Computer Programming: [CSC108H1](#), [CSC148H1](#)
5. Probability and Statistics: [STA237H1](#)/ [STA257H1](#), [STA238H1](#)/ [STA261H1](#), [STA347H1](#)

Ethical and Social Responsibility

6. 0.5 credit with a significant emphasis on ethics and social responsibility (list below)

Higher Studies in Mathematics

7. Topology: [MAT327H1](#)
8. Groups, Rings and Fields: [MAT347Y1](#)
9. Partial Differential Equations: [MAT351Y1](#)
10. Complex and Real Analysis: [MAT354H1](#), [MAT357H1](#)
11. Geometry: [MAT363H1](#)/ [MAT367H1](#)
12. Advanced Applied Mathematics: 1.0 credit from [APM421H1](#)/ [APM426H1](#)/ [APM441H1](#)/ [APM446H1](#)/ [APM461H1](#)/ [APM462H1](#)/ [APM466H1](#)
13. Related Topics: 1.5 credits from: [MAT332H1](#)/ [MAT344H1](#)/ [MAT454H1](#)/ [MAT457H1](#)/ [MAT458H1](#)/ [MAT464H1](#)/ [STA302H1](#)/ [STA457H1](#)/ [CSC336H1](#)/ [CSC436H1](#)/ [CSC446H1](#)/ [CSC456H1](#)

Research Seminar in Mathematics

14. [MAT477H1](#)

Notes:

- Not all courses listed have priority enrolment for students enrolled in this program. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
- Each course can count toward only one requirement, even if listed as options to multiple requisites of the program.
- [CSC108H1](#) is waived for students who complete [CSC148H1](#) first. If a student has not taken a year-long course in programming in secondary school, it is strongly recommended that students take [CSC108H1](#) first.
- Students may use CR/NCR on the course they use toward the ethics and social responsibility credit.

- Students in their last year of study with a cGPA of 3.5 or higher may be permitted to take up to 1.5 credits of Math graduate courses. These courses may count toward specialist program requirements, where relevant (e.g., as courses “at the 400-level”). To review eligibility criteria and apply for graduate courses as an undergraduate student, find more information on the A&S Math website.

Courses accepted towards this program's ethics requirement:

[CSC300H1](#)/ [CSE240H1](#)/ [CSE270H1](#)/ [EEB215H1](#)/ [ENV200H1](#)/ [ESS205H1](#)/ any ETH200+/ [FOR201H1](#)/ [HIS268H1](#)/ [HPS200H1](#)/ [HPS202H1](#)/ [INS200H1](#)/ [JPH441H1](#)/ [PHL265H1](#)/ [PHL271H1](#)/ [PHL273H1](#)/ [PHL275H1](#)/ [PHL281H1](#)/ [PHL295H1](#)/ [SDS256H1](#)/ another suitable course with permission from the Associate Chair, Undergraduate

Mathematics and Physics Specialist (Science Program) - ASSPE0397

The Specialist in Mathematics and Physics is directed toward students who want a strong background in both Mathematics and Physics, with the goal of applying sophisticated Mathematical techniques to the study of Physics, especially theoretical Physics.

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\) stream](#).

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students are encouraged to take their introductory analysis, algebra, and physics in their first year of study ([MAT157Y1](#), [MAT240H1](#), [MAT247H1](#), [PHY151H1](#), [PHY152H1](#)).

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and students applying for Year 3 entry must have

been admitted to the Mathematics and Physics Specialist in the Summer after Year 2.

Completion Requirements:

14.5 credits, including at least 1.0 credit at the 400-level

Mathematics and Physics Fundamentals

1. Analysis: MAT157Y1, MAT257Y1
2. Algebra: MAT240H1, MAT247H1
3. Advanced Ordinary Differential Equations: MAT267H1
4. Foundations of Physics: PHY151H1, PHY152H1

Ethical and Social Responsibility

5. 0.5 credit with a significant emphasis on ethics and social responsibility (list below)

Further Studies in Physics

6. Practical Physics: PHY224H1, PHY324H1
7. Electricity and Magnetism: PHY250H1, PHY350H1
8. Thermal Physics: PHY252H1
9. Classical Mechanics: PHY254H1, PHY354H1
10. Quantum Physics: PHY256H1, PHY356H1
11. Topics: 1.0 credit further from PHY450H1/ PHY452H1/ PHY454H1/ PHY456H1/ PHY460H1

Further Studies in Mathematics

12. Partial Differential Equations: MAT351Y1
13. Advanced Math related to the study of Physics: 1.0 credit from MAT334H1/ MAT354H1/ MAT357H1
14. Algebra, Topology, and Differential Geometry: 0.5 credit from MAT327H1/ MAT347Y1/ MAT363H1/ MAT367H1
15. Mathematical Techniques for Physics: 1.0 credit from APM421H1/ APM426H1/ APM446H1/ APM441H1

Research and Exploration in Mathematics and Physics

16. 0.5 credit from MAT477H1/ PHY424H1/ PHY478H1/ PHY479Y1

Notes:

- Not all courses listed have priority enrolment for students enrolled in this program. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
- Each course can count toward only one requirement, even if listed as options to multiple requisites of the program.
- CSC108H1 is waived for students who complete CSC148H1 first. If a student has not taken a year-long course in programming in secondary school,

it is strongly recommended that students take CSC108H1 first.

- Students may use CR/NCR on the course they use toward the ethics and social responsibility credit.
- Students in their last year of study with a cGPA of 3.5 or higher may be permitted to take up to 1.5 credits of Math graduate courses. These courses may count toward specialist program requirements, where relevant (e.g., as courses “at the 400-level”). To review eligibility criteria and apply for graduate courses as an undergraduate student, find more information on the A&S Math website.

Courses accepted towards this program's ethics requirement:

CSC300H1/ CSE240H1/ CSE270H1/ EEB215H1/ ENV200H1/ ESS205H1/ any ETH200+/ FOR201H1/ HIS268H1/ HPS200H1/ HPS202H1/ INS200H1/ JPH441H1/ PHL265H1/ PHL271H1/ PHL273H1/ PHL275H1/ PHL281H1/ PHL295H1/ SDS256H1/ another suitable course with permission from the Associate Chair, Undergraduate

Mathematics and Philosophy Specialist (Science Program) - ASSPE1361

The Specialist in Mathematics and Philosophy is directed toward students who are fascinated by the confluence of Mathematical and Philosophical precision.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students are encouraged to take their introductory analysis and algebra required for the program (MAT157Y1, MAT240H1, MAT247H1) as well as PHL100Y1/ PHL101Y1, which is recommended preparation for the program, in their first year of study.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in

the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Mathematics and Philosophy Specialist in the Summer after Year 2.

Completion Requirements:

12.0 credits including at least 1.0 credit at the 400-level

Mathematics and Philosophy Fundamentals

1. Analysis: [MAT157Y1](#), [MAT257Y1](#)
2. Algebra: [MAT240H1](#), [MAT247H1](#)
3. Philosophy related to science: 0.5 credit from [PHL232H1](#)/ [PHL233H1](#)/ [PHL255H1](#)

Further Studies in Philosophy

4. History of Philosophy: 1.0 credit from [PHL200Y1](#)/ [PHL205H1](#)/ [PHL206H1](#)/ [PHL210Y1](#)
5. Logic: 1.0 credit from [MAT309H1](#)/ [PHL348H1](#), [PHL345H1](#)
6. Politics and Ethics: [PHL265H1](#)/ [PHL275H1](#)
7. Topics: 2.0 credits further from [PHL325H1](#)/ [PHL331H1](#)/ [PHL332H1](#)/ [PHL346H1](#)/ [PHL354H1](#)/ [PHL347H1](#)/ [PHL349H1](#)/ [PHL355H1](#)/ [PHL451H1](#)/ [PHL480H1](#)

Further Studies in Mathematics

8. Topology: [MAT327H1](#)
9. Groups, Rings and Fields: [MAT347Y1](#)
10. Complex or Real Analysis: [MAT354H1](#)/ [MAT357H1](#)
11. Topics: 2.0 credits further of PHL/APM/MAT courses at the 300+ level

Notes:

- Not all courses listed have priority enrolment for students enrolled in this program. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
- Each course can count toward only one requirement, even if listed as options to multiple requisites of the program.
- Students in their last year of study with a cGPA of 3.5 or higher may be permitted to take up to 1.5 credits of Math graduate courses. These courses may count toward specialist program requirements, where relevant (e.g., as courses “at the 400-level”). To review eligibility criteria and apply for graduate courses as an undergraduate student, find more information on the A&S Math website.

Mathematical Applications in Economics and Finance Specialist (Science Program) - ASSPE1700

The Specialist in Mathematical Applications in Economics and Finance is directed toward students who need a strong Mathematics grounding for use in the study of Economics and Finance. It is an excellent preparation for an MBA.

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\) stream](#).

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students are encouraged to take their introductory calculus, algebra, and economics in their first year of study ([MAT157Y1](#)/ [MAT137Y1](#), [MAT223H1](#), [MAT224H1](#), [ECO101H1](#), [ECO102H1](#)).

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Mathematical Applications in Economics and Finance Specialist in the Summer after Year 2.

Completion Requirements:

12.0-12.5 credits

Fundamentals for Mathematical Applications in Economics and Finance

1. Calculus, Analysis, and Proofs: 2.0 – 2.5 credits from [MAT157Y1](#)/ ([MAT137Y1](#), [MAT246H1](#)), [MAT237Y1](#)
2. Linear Algebra: [MAT223H1](#), [MAT224H1](#)
3. Ordinary Differential Equations: [MAT244H1](#)/ [MAT267H1](#)
4. Principles in Economics: [ECO101H1](#), [ECO102H1](#)
5. Probability and Statistics: [STA237H1](#)/ [STA257H1](#), [STA238H1](#)/ [STA261H1](#), [STA347H1](#)

Ethical and Social Responsibility

6. 0.5 credit with a significant emphasis on ethics and social responsibility (list below)

Further Studies in Economics and Finance

7. Microeconomics: [ECO206Y1](#)
8. Financial Economics: [ECO358H1](#), [ECO359H1](#)
9. Analyzing Data relevant to Finance: [STA302H1](#)/
[ECO375H1](#)
10. Mathematical Theory of Finance: [APM466H1](#)

Further Studies in Mathematics

11. Partial Differential Equations: [APM346H1](#)
12. Real Analysis: [MAT337H1](#)
13. Special Interest Topics: 0.5 credit further from
[MAT332H1](#)/ [MAT344H1](#)/ [MAT475H1](#)
14. Time Series Analysis: [STA457H1](#)
15. Nonlinear Optimization: [APM462H1](#)

Notes:

- Not all courses listed have priority enrolment for students enrolled in this program. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
- Each course can count toward only one requirement, even if listed as options to multiple requisites of the program.
- Students may use CR/NCR on the course they use toward the ethics and social responsibility credit.
- Students in their last year of study with a cGPA of 3.5 or higher may be permitted to take up to 1.5 credits of Math graduate courses. These courses may count toward specialist program requirements, where relevant (e.g., as courses “at the 400-level”). To review eligibility criteria and apply for graduate courses as an undergraduate student, find more information on the A&S Math website.

Courses accepted towards this program's ethics requirement:

[CSC300H1](#)/ [CSE240H1](#)/ [CSE270H1](#)/ [EEB215H1](#)/
[ENV200H1](#)/ [ESS205H1](#)/ any ETH200+/ [FOR201H1](#)/
[HIS268H1](#)/ [HPS200H1](#)/ [HPS202H1](#)/ [INS200H1](#)/
[JPH441H1](#)/ [PHL265H1](#)/ [PHL271H1](#)/ [PHL273H1](#)/
[PHL275H1](#)/ [PHL281H1](#)/ [PHL295H1](#)/ [SDS256H1](#)/ another
suitable course with permission from the Associate Chair,
Undergraduate

Mathematics & Its Applications Specialist (Physical Science) (Science Program) - ASSPE1758

The Specialist in Mathematics & Its Applications (Physical Science) is directed toward students who enjoy Mathematics and who wish to use it to pursue studies in another Physical Science discipline. It can provide an entrée into the vast and rapidly growing array of subjects that rely on Mathematical techniques.

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\) stream](#).

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students are encouraged to take their introductory calculus/analysis, algebra, physics, and computer programming in their first year of study ([MAT157Y1](#)/ [MAT137Y1](#), [MAT223H1](#)/ [MAT240H1](#), [MAT224H1](#)/ [MAT247H1](#), [PHY151H1](#), [PHY152H1](#), [CSC108H1](#), [CSC148H1](#)).

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Mathematics & Its Applications Specialist (Physical Science) in the Summer after Year 2.

Completion Requirements:**12.5-13.0 credits**

Fundamentals for Mathematical Applications in the Physical Sciences

1. Calculus, Analysis and Proofs: 2.0 – 2.5 credits from [MAT157Y1](#)/ ([MAT137Y1](#), [MAT246H1](#)), [MAT235Y1](#)/
[MAT237Y1](#)/ [MAT257Y1](#)
2. Algebra: 1.0 credit from [MAT223H1](#)/ [MAT240H1](#),
[MAT224H1](#)/ [MAT247H1](#)
3. Ordinary Differential Equations: [MAT244H1](#)/
[MAT267H1](#)
4. Computer Programming: [CSC108H1](#), [CSC148H1](#)

5. Probability and Statistics: [STA237H1](#)/ [STA257H1](#)
 6. Foundations of Physics: [PHY151H1](#), [PHY152H1](#)
 7. Foundations of Astronomy and Astrophysics: [AST221H1](#)

Ethical and Social Responsibility

8. 0.5 credit with a significant emphasis on ethics and social responsibility (list below)

Further Studies in the Physical Sciences:

9. Topics in Physics: 1.5 credits from [AST222H1](#)/ [PHY250H1](#)/ [PHY252H1](#)/ [PHY254H1](#)/ [PHY256H1](#)
 10. Additional Topics: 1.5 credits from [AST320H1](#)/ [AST325H1](#)/ [MAT337H1](#)/ [MAT363H1](#)/ [MAT367H1](#)/ [PHY350H1](#)/ [PHY354H1](#)/ [PHY356H1](#)/ [PHY357H1](#)/ [PHY358H1](#)

Further Studies in Mathematics

11. Groups and Symmetries: [MAT301H1](#)
 12. Complex Variables: [MAT334H1](#)
 13. Partial Differential Equations: 0.5 credit from [APM346H1](#)/ [MAT351Y1](#)
 14. Advanced Topics: 1.0 credit from [APM421H1](#)/ [APM426H1](#)/ [APM441H1](#)/ [APM446H1](#)/ [PHY407H1](#)/ [PHY408H1](#)/ [PHY456H1](#)

Notes:

- Not all courses listed have priority enrolment for students enrolled in this program. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
- Each course can count toward only one requirement, even if listed as options to multiple requisites of the program.
- [CSC108H1](#) is waived for students who complete [CSC148H1](#) first. If a student has not taken a year-long course in programming in secondary school, it is strongly recommended that students take [CSC108H1](#) first.
- Students may use CR/NCR on the course they use toward the ethics and social responsibility credit.
- Students in their last year of study with a cGPA of 3.5 or higher may be permitted to take up to 1.5 credits of Math graduate courses. These courses may count toward specialist program requirements, where relevant (e.g., as courses “at the 400-level”). To review eligibility criteria and apply for graduate courses as an undergraduate student, find more information on the A&S Math website.

Courses accepted towards this program’s ethics requirement:

[CSC300H1](#)/ [CSE240H1](#)/ [CSE270H1](#)/ [EEB215H1](#)/ [ENV200H1](#)/ [ESS205H1](#)/ any ETH200+/ [FOR201H1](#)/ [HIS268H1](#)/ [HPS200H1](#)/ [HPS202H1](#)/ [INS200H1](#)/ [JPH441H1](#)/ [PHL265H1](#)/ [PHL271H1](#)/ [PHL273H1](#)/ [PHL275H1](#)/ [PHL281H1](#)/ [PHL295H1](#)/ [SDS256H1](#)/ another suitable course with permission from the Associate Chair, Undergraduate

Mathematics & Its Applications Specialist (Probability/Statistics) (Science Program) - ASSPE1890

The Specialist in Mathematics & Its Applications (Probability/Statistics) is directed toward students whose interests include both Mathematics and its applications in Probability and Statistics. These skills are in high demand in a world in which the uses of AI are expanding by leaps and bounds.

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\) stream](#).

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students are encouraged to take their introductory calculus/analysis, algebra, and computer programming in their first year of study ([MAT157Y1](#)/ [MAT137Y1](#), [MAT223H1](#)/ [MAT240H1](#), [MAT224H1](#)/ [MAT247H1](#), [CSC108H1](#), [CSC148H1](#)).

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Mathematics & Its Applications Specialist (Probability/Statistics) in the Summer after Year 2.

Completion Requirements:

11.5-12.5 credits

Fundamentals for Mathematical Applications in Probability and Statistics

1. Calculus, Analysis and Proofs: 2.0 – 2.5 credits from [MAT157Y1](#)/ ([MAT137Y1](#), [MAT246H1](#)), [MAT237Y1](#)/[MAT257Y1](#)
2. Algebra: 1.0 credit from [MAT223H1](#)/ [MAT240H1](#), [MAT224H1](#)/ [MAT247H1](#)
3. Ordinary Differential Equations: [MAT244H1](#)/[MAT267H1](#)
4. Computer Programming: [CSC108H1](#), [CSC148H1](#)
5. Probability and Statistics: [STA237H1](#)/ [STA257H1](#), [STA238H1](#)/ [STA261H1](#), [STA347H1](#)/ [MAT377H1](#)

Ethical and Social Responsibility

6. 0.5 credit with a significant emphasis on ethics and social responsibility (list below)

Further Studies in Probability and Statistics

7. Data Analysis: [STA302H1](#)
8. Related Structures: 1.0 credit from [STA355H1](#)/[MAT332H1](#)/ [MAT344H1](#)/ [APM348H1](#)/ [APM461H1](#)
9. Advanced Statistics: 1.0 credit from [STA452H1](#)/[STA453H1](#)/ [STA437H1](#)/ [STA442H1](#)/ [STA447H1](#)/[STA465H1](#)/ [STA410H1](#)

Further Studies in Mathematics

10. Groups and Symmetries: [MAT301H1](#)
11. Complex Variables: [MAT334H1](#)
12. Real Analysis: [MAT337H1](#)
13. Partial Differential Equations or Optimization: 0.5 credit from [APM346H1](#)/ [MAT351Y1](#)/ [APM462H1](#)
14. Advanced Topics: Additional 1.0 credit at the 300+ level from APM/MAT courses

Notes:

- Not all courses listed have priority enrolment for students enrolled in this program. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
- Each course can count toward only one requirement, even if listed as options to multiple requisites of the program.
- [CSC108H1](#) is waived for students who complete [CSC148H1](#) first. If a student has not taken a year-long course in programming in secondary school, it is strongly recommended that students take [CSC108H1](#) first.
- Students may use CR/NCR on the course they use toward the ethics and social responsibility credit.
- Students in their last year of study with a cGPA of 3.5 or higher may be permitted to take up to 1.5

credits of Math graduate courses. These courses may count toward specialist program requirements, where relevant (e.g., as courses “at the 400-level”). To review eligibility criteria and apply for graduate courses as an undergraduate student, find more information on the A&S Math website.

Courses accepted towards this program’s ethics requirement:

[CSC300H1](#)/ [CSE240H1](#)/ [CSE270H1](#)/ [EEB215H1](#)/ [ENV200H1](#)/ [ESS205H1](#)/ any ETH200+/ [FOR201H1](#)/ [HIS268H1](#)/ [HPS200H1](#)/ [HPS202H1](#)/ [INS200H1](#)/ [JPH441H1](#)/ [PHL265H1](#)/ [PHL271H1](#)/ [PHL273H1](#)/ [PHL275H1](#)/ [PHL281H1](#)/ [PHL295H1](#)/ [SDS256H1](#)/ another suitable course with permission from the Associate Chair, Undergraduate

Mathematics & Its Applications Specialist (Teaching) (Science Program) - ASSPE1580

The Specialist Mathematics & Its Applications Specialist (Teaching) is directed toward students who are interested in teaching at the elementary or secondary level and who wish to bring a strong Mathematics background to bear in the classroom.

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\) stream](#).

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students are encouraged to take their introductory analysis, algebra, and programming in their first year of study ([MAT157Y1](#)/ [MAT137Y1](#), [MAT223H1](#)/ [MAT240H1](#), [MAT224H1](#)/ [MAT247H1](#), [CSC108H1](#)).

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and students applying for Year 3 entry must have

been admitted to the Mathematics & Its Applications Specialist (Teaching) in the Summer after Year 2.

Completion Requirements:

10.5-11.0 credits, including at least 1.0 credit at the 400-level

Fundamentals for Mathematical Applications related to Teaching

1. Calculus, Analysis and Proofs: 2.0 – 2.5 credits from MAT157Y1/ (MAT137Y1, MAT246H1), MAT235Y1/ MAT237Y1/ MAT257Y1
2. Algebra: 1.0 credit from MAT223H1/ MAT240H1, MAT224H1/ MAT247H1
3. Ordinary Differential Equations: MAT244H1/ MAT267H1
4. Computer Programing: CSC108H1
5. Probability and Statistics: STA237H1/ STA257H1

Ethical and Social Responsibility

6. 0.5 credit with a significant emphasis on ethics and social responsibility (list below)

Further Studies in Mathematics related to Teaching

7. Concepts in Elementary Mathematics: MAT329Y1
8. History of Mathematics: 1.0 credit from HPS390H1/ MAT390H1, HPS391H1/ MAT391H1
9. Intriguing Topics: 1.0 credit from MAT309H1/ MAT315H1/ STA302H1/ STA347H1

Further Studies in Mathematics:

10. Groups & Symmetries: MAT301H1
11. Complex Variables: MAT334H1
12. Advanced Topics: 1.0 credit further from MAT332H1/ MAT335H1/ MAT337H1/ MAT344H1/ MAT363H1/ MAT367H1
13. Further Topics: 1.0 credit of any APM/MAT 400-level courses, MAT401H1/ MAT402H1 recommended

Notes:

- Not all courses listed have priority enrolment for students enrolled in this program. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
- Each course can count toward only one requirement, even if listed as options to multiple requisites of the program.
- Students may use CR/NCR on the course they use toward the ethics and social responsibility credit.
- Students in their last year of study with a cGPA of 3.5 or higher may be permitted to take up to 1.5

credits of Math graduate courses. These courses may count toward specialist program requirements, where relevant (e.g., as courses “at the 400-level”). To review eligibility criteria and apply for graduate courses as an undergraduate student, find more information on the A&S Math website.

Courses accepted towards this program's ethics requirement:

CSC300H1/ CSE240H1/ CSE270H1/ EEB215H1/ ENV200H1/ ESS205H1/ any ETH200+/ FOR201H1/ HIS268H1/ HPS200H1/ HPS202H1/ INS200H1/ JPH441H1/ PHL265H1/ PHL271H1/ PHL273H1/ PHL275H1/ PHL281H1/ PHL295H1/ SDS256H1/ another suitable course with permission from the Associate Chair, Undergraduate

Mathematics Major (Science Program) - ASMAJ1165

The Major in Mathematics is directed toward students who are interested in combining a solid knowledge of Mathematics with studies in other disciplines. While typically less in-depth than the Specialist Programs, it still covers a broad swath of the subject.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students are encouraged to take their introductory calculus/analysis and algebra in their first year of study [(MAT135H1, MAT136H1/ MAT137Y1/ MAT157Y1)], (MAT223H1/ MAT240H1, MAT224H1/ MAT247H1)

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Mathematics Major in the Summer after Year 2.

Completion Requirements:

7.5 credits, including 2.5 credits at the 300+ level with a minimum of 0.5 credit at the 400 level

Mathematics Fundamentals

1. 2.5 credits from (MAT135H1, MAT136H1, MAT246H1)/ (MAT137Y1, MAT246H1)/ (MAT157Y1, 0.5 credit from APM/MAT200+ courses), MAT235Y1/ MAT237Y1/ MAT257Y1

2. Algebra: 1.0 credit from MAT223H1/ MAT240H1, MAT224H1/ MAT247H1

3. Ordinary Differential Equations: MAT244H1/ MAT267H1

Ethical and Social Responsibility

4. 0.5 credit with a significant emphasis on ethics and social responsibility (list below)

Higher Studies in Mathematics

5. Groups and Symmetries: MAT301H1

6. Mathematical Logic or Number Theory: MAT309H1/ MAT315H1

7. Complex Variables: MAT334H1

8. Further Topics: 1.5 credits including 1.0 credit at the 300+ level including 0.5 credit at the 400-level: ACT240H1/ ACT230H1/ APM236H1/ APM346H1/ any APM400-level course/ HPS390H1/ HPS391H1/ MAT309H1/ MAT315H1/ MAT332H1/ MAT335H1/ MAT337H1/ MAT344H1/ MAT363H1/ MAT390H1/ MAT391H1/ any MAT400-level course/ PSL432H1/ STA247H1/ STA257H1

Notes:

- Only 0.5 credit of HPS390H1/ MAT390H1/ HPS391H1/ MAT391H1 may count toward the major completion requirement of "further topics."
- Each course can count toward only one requirement, even if listed as options to multiple requisites of the program.
- Not all courses listed have priority enrolment for students enrolled in this program. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
- Students may use CR/NCR on the course they use toward the ethics and social responsibility credit.

- Students interested in becoming K-12 teachers should consider applying to the combined degree program --- a six-year program that leads to an Honours Bachelor of Science (HBSc) from the University of Toronto and a Master of Teaching (MT) from the Ontario Institute for Studies in Education (OISE). The HBSc part of this program involves completing a Math Major, a Minor in Education and Society (offered by Victoria College) and a Minor in an area that would lead to a second "teachable" subject. Please see the Victoria College website for more information.

Courses accepted towards this program's ethics requirement:

CSC300H1/ CSE240H1/ CSE270H1/ EEB215H1/ ENV200H1/ ESS205H1/ any ETH200+/ FOR201H1/ HIS268H1/ HPS200H1/ HPS202H1/ INS200H1/ JPH441H1/ PHL265H1/ PHL271H1/ PHL273H1/ PHL275H1/ PHL281H1/ PHL295H1/ SDS256H1/ another suitable course with permission from the Associate Chair, Undergraduate

Mathematics Minor (Science Program) - ASMIN1165

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students are encouraged to take their introductory calculus/analysis and algebra in their first year of study [(MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1], MAT223H1/ MAT240H1, MAT224H1/ MAT247H1

Completion Requirements:

4.0 credits, including 1.0 at the 300+ level

1. Calculus: 2.0 credits from (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1, MAT235Y1/ MAT237Y1/ MAT257Y1
2. Algebra: MAT221H1 (80%+) / MAT223H1/ MAT240H1
3. Further Fundamentals in Mathematics: MAT224H1/ MAT244H1/ MAT246H1/ APM236H1/ MAT247H1
4. Advanced Topics: 1.0 credit at the 300+ level from APM/MAT courses

Notes:

- Only 0.5 credit of APM306Y1 may count toward the Minor program
- A minimum of 80% is required for MAT221H1 so that it may be used as a pre-requisite for higher level courses that accept MAT221H1 as a pre-requisite option.
- PSL432H1, HPS390H1, HPS391H1 may count toward the "Advanced Topics" requirement.
- Each course can count toward only one requirement, even if listed as options to multiple requisites of the program.
- Not all courses listed have priority enrolment for students enrolled in this program. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.

Mathematics Courses

MAT133Y1 - Calculus and Linear Algebra for Commerce

Hours: 72L

Mathematics of finance. Matrices and linear equations. Review of differential calculus; applications. Integration and fundamental theorem; applications. Introduction to partial differentiation; applications. Course material expects at minimum high school calculus has been completed prior to undertaking course. This course will be useful for students interested in learning applied calculus in relation to future studies in commerce and/or social science programs.

Prerequisite: High school level calculus

Exclusion: MAT133Y5/ (MATA32H3, MATA33H3)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT135H1 - Calculus I

Hours: 36L/12T

In this first introduction to Calculus, students will be introduced to the tools of differential calculus, the branch

Combined Degree Program (CDP) offered with Victoria College and Ontario Institute for Studies in Education (OISE)

- Combined Degree Program in HBA/HBSc and Master of Teaching (MT)

Students enrolled in the Minor in Education and Society and Major in Mathematics may apply for this Combined Degree Program. For details about application and program requirements, see the Combined Degree Programs section.

Joint Programs

- Economics and Mathematics, see Economics
- Statistics and Mathematics, see Statistical Sciences
- Combined Degree Program: STG, Honours Bachelor of Science, Major in Mathematics / Master of Teaching

of calculus that is motivated by the problem of measuring how quantities change. Students will use these tools to solve other problems, including simplifying functions with straight lines, describing how different types of change are related, and computing maximum and minimum quantities. This course will focus on developing a deep understanding of why the tools of calculus make sense and how to apply them to the social, biological, and physical sciences. It will also emphasize translating between algebraic, graphical, numerical and verbal descriptions of each concept studied. This course will be useful for students interested in learning applied calculus in relation to future studies in economics, life science, and physical and mathematical science programs. The following concepts will be studied: Limits, asymptotes, continuity, derivatives, linear approximation of functions, the notion of a differential equation (DE) and a solution of a DE, slope fields, and Euler's method.

Prerequisite: High school level calculus

Exclusion: MAT135H5/ MAT136H5/ MATA30H3/ MATA31H3/ MATA36H3/ APS162H1/ APS163H1/ ESC194H1/ ESC195H1/ MAT186H1/ MAT187H1/ MAT196H1/ MAT197H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT136H1 - Calculus II

Hours: 36L/12T

This second part of the introductory Calculus sequence focuses on integral calculus beginning with the Fundamental Theorem of Calculus, the connection between two seemingly unrelated problems: measuring changing quantities and finding areas of curved shapes. Students will develop a deep understanding of the integral, and use it to: unpack equations involving derivatives; to make sense of infinite sums; to write complicated functions as 'infinite polynomials'; and to compute areas, volumes, and totals in applied problems. This course will further develop students' abilities to translate between algebraic, graphical, numerical, and verbal descriptions of mathematics in a variety of applied contexts. This course is a continuation of MAT135H1 and will be useful for students interested in learning applied calculus in relation to future studies in economics, life science, and physical and mathematical science programs. The following concepts will be studied: Integration, basic techniques of integration (substitution and by parts), improper integrals, using computer algebra systems (CAS) for integration, Taylor polynomials and Taylor series, ratio test for power series, radius of convergence of power series, first-order differential equations and systems of differential equations: modelling, separable DEs, and using CAS to study and find solutions.

Prerequisite: MAT135H1/ MAT135H5/ MATA30H3/ MATA31H3/ APS162H1/ ESC194H1/ MAT186H1/ MAT196H1

Exclusion: MAT136H5/ MATA36H3/ APS163H1/ ESC195H1/ MAT187H1/ MAT197H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT137Y1 - Calculus with Proofs

Hours: 72L/24T

A conceptual approach for students interest in theoretical foundations of mathematics. Attention is given to computational aspects as well as problem-solving techniques. Limits and continuity, mean value theorem, elementary transcendental functions including trigonometric functions, inverse function theorem, differentiation, integration, fundamental theorem of calculus, Taylor's theorem, sequences and series, power series, and applications. This course will be useful for students interested in learning theoretical calculus and proofs in relation to future studies in computer science, economics, mathematics, physics, and statistics.

Prerequisite: High school level calculus

Exclusion: MAT137Y5/ (MATA30H3/ MATA31H3, MATA37H3)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT138H1 - Introduction to Proofs

Hours: 36L/12T

The goal of this course is for students to become comfortable with abstraction, rigour, logic, and proofs. They will practice reading and understanding mathematical statements, analyzing definitions and properties, formulating conjectures and generalizations, providing and writing reasonable and precise arguments, writing and critiquing proofs. The instructor may use specific mathematical content, which could vary from year to year, to practice these skills. Students who take MAT135H1 and MAT136H1 and wish to take MAT237Y1 are required to take MAT138H1 prior to undertaking MAT237Y1. Students who are taking MAT137Y1 or MAT157Y1 and/or MAT240H1 and are interested in more preparation with logical arguments are encouraged to take MAT138H1 concurrently.

Prerequisite: High school level calculus

Exclusion: MAT137Y1/ MAT137Y5/ (MATA30H3/ MATA31H3, MATA37H3)/ MAT157Y1/ MAT157Y5

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT157Y1 - Analysis I

Hours: 72L/48T

A theoretical course in calculus; emphasizing proofs and techniques. Elementary logic, limits and continuity, least upper bounds, intermediate and extreme value theorems. Derivatives, mean value and inverse function theorems. Integrals, fundamental theorem, elementary transcendental functions. Techniques of integration. Taylor's theorem; sequences and series; uniform convergence and power series. This course is required for the Mathematics Specialist, the Applied Mathematics Specialist, the Mathematics and Physics Specialist, and the Mathematics and Philosophy Specialist program and provides a strong theoretical mathematics background.

Prerequisite: High school level calculus

Exclusion: MAT157Y5

Recommended Preparation: Preparing for University Math (PUMP) Level II. Students may also want to take MAT138H1 concurrently with MAT157Y1.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT193H1 - Women's Mathematics

Hours: 36S

Mathematics has been shaped in significant ways by the work of outstanding female mathematicians such as

Hypatia, Emmy Noether, Sofia Kovalevskaya, and Maryam Mirzakhani. Despite these successes, women still experience barriers to entering the field and participating at the highest levels. This course will blend an exploration of mathematics created by women with a study of the issue of women in mathematics. Students will have the opportunity to examine the complex factors that impact women's participation in STEM, learn about the lives of female mathematicians, create their own mathematics, and sharpen their spatial cognition and logical thinking skills. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: High school level algebra.

Exclusion: Not intended for students in a Mathematics Specialist or Major program.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT194H1 - Mathematical Personalities

Hours: 24L

An in-depth study of the life, times and work of several mathematicians who have been particularly influential. Examples may include but are not limited to: Coxeter, Euler, Germain, Grothendieck, Hilbert, Kovalevskaya, Kowalewski, Mirzhakhani, Newton, Noether, Ramanujan. Not intended for students in a Mathematics Specialist or Major program. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT195H1 - Mathematics as an Interdisciplinary Pursuit

Hours: 24L

A study of the interaction of mathematics with other fields of inquiry: how mathematics influences, and is influenced by, the evolution of science and culture. Art, music, and literature, as well as the more traditionally related areas of the natural and social sciences may be considered. Not intended for students in a Mathematics Specialist or Major program. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT197H1 - Mathematics as a Recreation, Mathematical Discovery and Creative Problem Solving

Hours: 24L

This course is an exploration into the creative process and use of imagination as they arise in the context of mathematical problem solving, puzzles, and recreational mathematics. The topics for the course may include a study of games, puzzles and problems that require a pre-Calculus background. One of the course's main goals is to hone each participant's creativity and mathematical problem-solving skills while guiding them towards the 'Aha!' experience which accompanies independent discovery. Not intended for students in Mathematics Specialist or Major programs. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT198H1 - Cryptology: The Mathematics of Secrecy and Security

Hours: 24S

How do we send our own confidential information through secure channels, and how can we break codes to uncover the secret information of our adversaries? The mathematical field of cryptology is dedicated to answering such questions. In this course we will study breakthroughs in cryptology, from secret messages in the ancient world and the Enigma cipher in World War II, to modern cryptosystems that facilitate online commerce. Along the way, you will develop a sophisticated understanding of how numbers interact and develop the ability to communicate messages secretly and mathematics clearly. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: High school level algebra.

Exclusion: Not intended for students in a Mathematics Specialist or Major program.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT199H1 - Aha! Mathematical Discovery and Creative Problem Solving

Hours: 36S

This course is an exploration into the creative process and use of imagination as they arise in the context of

mathematical problem solving. The problems, which are all at a pre-calculus level, are chosen primarily by the criterion of aesthetic appeal, and emphasize reasoning rather than technique. Still, many of them are quite challenging, and substantial independent thinking will be required, the course is therefore appropriate for students from a variety of backgrounds and disciplines, including hard sciences. Its goal will be to hone each participant's creativity and mathematical problem-solving skills while guiding them towards the 'Aha!' experience which accompanies independent discovery. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: High school level algebra

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT221H1 - Applied Linear Algebra

Hours: 36L/12T

An application-oriented approach to linear algebra, based on calculations in standard Euclidean space. Systems of linear equations, matrices, Gaussian elimination, subspaces, bases, orthogonal vectors and projections. Matrix inverses, kernel and range, rank-nullity theorem. Determinants, eigenvalues and eigenvectors, Cramer's rule, diagonalization. This course has strong emphasis on building computational skills in the area of algebra. Applications to curve fitting, economics, Markov chains and cryptography.

Prerequisite: High school level calculus

Exclusion: MAT223H1/ MAT223H5/ MATA22H3/ MATA23H3/ MAT224H1/ MAT224H5/ MATB24H3/ MAT240H1/ MAT240H5/ MAT185H1/ MAT188H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT223H1 - Linear Algebra I

Hours: 36L/12T

A first course on linear algebra in \mathbb{R}^n emphasizing the interplay between algebraic and geometric perspectives. Topics include systems of equations, Gaussian elimination, representations of lines and planes, dot products, subspaces and translated subspaces, bases and change of basis, projections, the rank and nullity of a linear transformation, the rank/nullity/row space/column space of a matrix, matrix inverses, determinants, eigenvectors and eigenvalues, and matrix diagonalization. While not emphasizing proofs, this course does maintain a careful distinction between vectors and their representation in a basis as well as between matrices and linear transformations.

Prerequisite: High school level calculus

Exclusion: MAT223H5/ MATA22H3/ MATA23H3/ MAT224H1/ MAT224H5/ MATB24H3/ MAT240H1/ MAT240H5/ MAT247H1/ MAT247H5/ MAT185H1/ MAT188H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT224H1 - Linear Algebra II

Hours: 36L/12T

Fields, complex numbers, vector spaces over a field, linear transformations, matrix of a linear transformation, kernel, range, dimension theorem, isomorphisms, change of basis, eigenvalues, eigenvectors, diagonalizability, real and complex inner products, spectral theorem, adjoint/self-adjoint/normal linear operators, triangular form, nilpotent mappings, Jordan canonical form.

Prerequisite: MAT221H1(80%)/ MAT223H1/ MAT223H5/ MATA22H3/ MATA23H3/ MAT240H1/ MAT240H5

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT235Y1 - Multivariable Calculus

Hours: 72L

Parametric equations and polar coordinates. Vectors, vector functions and space curves. Differential and integral calculus of functions of several variables. Line integrals and surface integrals and classic vector calculus theorems. Examples from life sciences and physical science applications.

Prerequisite: MAT133Y1/ MAT133Y5/ (MATA32H3, MATA33H3)/ (MAT135H1, MAT136H1)/ (MAT135H5, MAT136H5)/ (MATA30H3/ MATA31H3, MATA36H3/ MATA37H3)/ MAT137Y1/ MAT137Y5/ (MAT137H5, MAT139H5)/ MAT157Y1/ MAT157Y5/ (MAT157H5, MAT159H5)

Exclusion: MAT235Y5/ (MAT232H5/ MAT233H5, MAT236H5/ MAT368H5)/ (MATB41H3, MATB42H3)/ MAT237Y1/ MAT291H1/ MAT294H1

Recommended Preparation: MAT223H1/ MAT223H5/ MATA22H3/ MATA23H3/ MAT240H1/ MAT240H5

Breadth Requirements: The Physical and Mathematical Universes (5)

APM236H1 - Applications of Linear Programming

Hours: 36L

Introduction to linear programming including a rapid review of linear algebra (row reduction, matrix inversion, linear independence), the simplex method with applications, the duality theorem, complementary slackness, the dual simplex method and the revised simplex method.

Prerequisite: [MAT221H1](#)/ [MAT223H1](#)/ [MAT223H5](#)/ [MATA22H3](#)/ [MATA23H3](#)/ [MAT240H1](#)/ [MAT240H5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT237Y1 - Multivariable Calculus with Proofs

Hours: 72L

Elementary topology in Euclidean space. Differential calculus of vector valued functions of a vector variable. Implicit and inverse function theorems, regular surfaces. Optimization, Lagrange multipliers, multivariable Taylor polynomials. Integral calculus with the Jordan measure. Fubini's theorem, change of variables. Line and surface integrals. Vector calculus in two- and three-dimensions. Green's theorem, Divergence theorem, Stokes' theorem. Fourier series. This course is recommended for students interested in proof-based multivariable calculus with balanced emphasis between theory and applications.

Prerequisite: [[MAT133Y1](#)/ ([MAT135H1](#), [MAT136H1](#))/ ([MAT135H5](#), [MAT136H5](#))/ ([MATA30H3](#)/ [MATA31H3](#), [MATA36H3](#)), [MAT138H1](#)/ [MAT102H5](#)/ [MAT246H1](#)]/ [MAT137Y1](#)/ [MAT137Y5](#)/ ([MAT137H5](#), [MAT139H5](#))/ ([MATA30H3](#)/ [MATA31H3](#), [MATA37H3](#))/ [MAT157Y1](#)/ [MAT157Y5](#)/ ([MAT157H5](#), [MAT159H5](#)), [MAT223H1](#)/ [MATA22H3](#)/ [MATA23H3](#)/ [MAT240H1](#)/ [MAT240H5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT240H1 - Algebra I

Hours: 36L/24T

A theoretical approach to: vector spaces over arbitrary fields, including \mathbb{C} and \mathbb{Z}_p . Subspaces, bases and dimension. Linear transformations, matrices, change of basis, similarity, determinants. Polynomials over a field (including unique factorization, resultants). Eigenvalues, eigenvectors, characteristic polynomial, diagonalization. Minimal polynomial, Cayley-Hamilton theorem.

Prerequisite: High school level calculus

Corequisite: [MAT157Y1](#)

Exclusion: [MAT240H5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT244H1 - Introduction to Ordinary Differential Equations

Hours: 36L

First order ordinary differential equations: Direction fields, integrating factors, separable equations, homogeneous equations, exact equations, autonomous equations, modeling. Existence and uniqueness theorem. Higher order equations: Constant coefficient equations, reduction of order, Wronskian, method of undetermined coefficients, variation of parameters. Solutions by series and integrals. First order linear systems, fundamental matrices. Non-linear equations, phase plane, stability. Applications in life and physical sciences and economics.

Prerequisite: ([MAT133Y1](#)/ [MAT135H1](#)/ [MAT135H5](#)/ [MATA35H3](#)/ [MATA30H3](#)/ [MATA31H3](#), [MAT136H1](#)/ [MAT136H5](#)/ [MATA36H3](#)/ [MATA37H3](#))/ [MAT135Y5](#)/ [MAT137Y1](#)/ [MAT137Y5](#)/ ([MAT137H5](#), [MAT139H5](#))/ [MAT157Y1](#)/ [MAT157Y5](#)/ ([MAT157H5](#), [MAT159H5](#)), [MAT223H1](#)/ [MATA23H3](#)/ [MAT223H5](#)/ [MAT240H1](#)/ [MAT240H5](#)

Corequisite: [MAT235Y1](#)/ [MAT237Y1](#)/ [MAT257Y1](#)

Exclusion: [MAT242H5](#)/ [MAT244H5](#)/ [MATB44H3](#)/ [MAT212H5](#)/ [MAT258Y5](#)/ [MAT292H1](#)/ [MAT267H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT245H1 - Mathematical Methods in Data Science

Hours: 36L/24P

An introduction to the mathematical methods behind scientific techniques developed for extracting information from large data sets. Elementary probability density functions, conditional expectation, inverse problems, regularization, dimension reduction, gradient methods, singular value decomposition and its applications, stability, diffusion maps. Examples from applications in data science and big data.

Prerequisite: [MAT137Y1](#)/ [MAT157Y1](#), [MAT223H1](#)/ [MAT240H1](#), [MAT224H1](#)/ [MAT247H1](#)

Corequisite: [MAT237Y1](#)/ [MAT257Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT246H1 - Concepts in Abstract Mathematics

Hours: 36L/12T

Designed to introduce students to mathematical proofs and abstract mathematical concepts. Topics may include

modular arithmetic, sizes of infinite sets, and a proof that some angles cannot be trisected with straightedge and compass.

Prerequisite: MAT133Y1/ MAT133Y5/ (MATA32H3, MATA33H3)/ (MAT135H1, MAT136H1)/ (MAT135H5, MAT136H5)/ (MATA30H3/ MATA31H3, MATA36H3/ MATA37H3)/ MAT137Y1/ MAT137Y5/ (MAT137H5, MAT139H5), MAT223H1/ MATA22H3/ MATA23H3/ MAT240H1/ MAT240H5

Exclusion: MAT157Y1/ MAT157Y5/ MAT157H5/ MAT159H5

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT247H1 - Algebra II

Hours: 36L

A theoretical approach to real and complex inner product spaces, isometries, orthogonal and unitary matrices and transformations. The adjoint. Hermitian and symmetric transformations. Spectral theorem for symmetric and normal transformations. Polar representation theorem. Primary decomposition theorem. Rational and Jordan canonical forms. Additional topics including dual spaces, quotient spaces, bilinear forms, quadratic surfaces, multilinear algebra.

Prerequisite: MAT240H1/ MAT240H5

Corequisite: MAT157Y1

Exclusion: MAT247H5

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT257Y1 - Analysis II

Hours: 72L/48T

Topology of \mathbb{R}^n ; compactness, functions and continuity, extreme value theorem. Derivatives; inverse and implicit function theorems, maxima and minima, Lagrange multipliers. Integration; Fubini's theorem, partitions of unity, change of variables. Differential forms. Manifolds in \mathbb{R}^n ; integration on manifolds; Stokes' theorem for differential forms and classical versions. Some topics may vary year-to-year.

Prerequisite: MAT157Y1/ (MAT157H5, MAT159H5)/ MAT157Y5, MAT247H1/ MAT247H5

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT267H1 - Advanced Ordinary Differential Equations

Hours: 36L/12T

A theoretical course on Ordinary Differential Equations. First-order equations: separable equations, exact equations, integrating factors. Variational problems, Euler-Lagrange equations. Linear equations and first-order systems. Fundamental matrices, Wronskians. Non-linear equations. Existence and uniqueness theorems. Method of power series. Elementary qualitative theory; stability, phase plane, stationary points. Oscillation theorem, Sturm comparison. Applications in mechanics, physics, chemistry, biology and economics.

Prerequisite: MAT157Y1/ (MAT157H5, MAT159H5)/ MAT157Y5, MAT247H1/ MAT247H5

Corequisite: MAT257Y1

Exclusion: MAT234H1/ MAT292H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT271H1 - Insights from Mathematics

Hours: 36L/6T

This breadth course is accessible to students with limited mathematical background. Various mathematical techniques will be illustrated with examples from humanities and social science disciplines. Some of the topics will incorporate user friendly computer explorations to give participants the feel of the subject without requiring skill at calculations.

Note: This course cannot be used to satisfy requirements of program in the math department.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT282H1 - Topics in Mathematics

Hours: 36L

A course in mathematics on a topic outside the current undergraduate offerings. For information on the specific topic to be studied and possible additional prerequisites, go to <http://www.math.toronto.edu/cms/current-students-ug/>

Prerequisite: 1.0 MAT credit at the 100-level. Possible additional topic-specific prerequisites.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT295H1 - Independent Reading in Mathematics

Independent study under the direction of a faculty member. Topic must be outside undergraduate offerings. Similar workload to a 36L course. Not eligible for CR/NCR option.

Completed applications for this course are due to the Math Undergraduate Program Office no later than the third day of the term that the reading course will start.

Prerequisite: Minimum GPA of 3.5 in APM and MAT courses. Permission of the Associate Chair for Undergraduate Studies and of the prospective supervisor.
Breadth Requirements: The Physical and Mathematical Universes (5)

MAT296H1 - Independent Reading in Mathematics

Independent study under the direction of a faculty member. Topic must be outside undergraduate offerings. Workload equivalent to a 36L course. Not eligible for CR/NCR option.

Prerequisite: Minimum GPA of 3.5 in APM and MAT courses. Permission of the Associate Chair for Undergraduate Studies and of the prospective supervisor.
Breadth Requirements: The Physical and Mathematical Universes (5)

MAT297Y1 - Research Project in Mathematics

Independent research under the direction of a faculty member. Similar workload to a 72L course. Not eligible for CR/NCR option.

Completed applications for this course are due to the Math Undergraduate Program Office no later than the third day of the term that the reading course will start.

Prerequisite: Minimum GPA of 3.5 in APM and MAT courses. Permission of the Associate Chair for Undergraduate Studies and of the prospective supervisor
Breadth Requirements: The Physical and Mathematical Universes (5)

MAT299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

MAT301H1 - Groups and Symmetries

Hours: 36L

Congruences and fields. Permutations and permutation groups. Linear groups. Abstract groups, homomorphisms, subgroups. Symmetry groups of regular polygons and Platonic solids, wallpaper groups. Group actions, class formula. Cosets, Lagrange theorem. Normal subgroups, quotient groups. Classification of finitely generated abelian groups. Emphasis on examples and calculations.

Prerequisite: MAT257Y1/ (MAT224H1/ MAT247H1, MAT235Y1/ MAT237Y1, MAT246H1/ MAT157Y1/ (MAT157H5, MAT159H5)/ MAT157Y5/ CSC236H1/ CSC240H1)/ (MAT185H1, MAT194H1, MAT195H1)
Exclusion: MAT347Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

APM306Y1 - Mathematics and Law

Hours: 72L

This course examines the relationship between legal reasoning and mathematical logic; provides a mathematical perspective on the legal treatment of interest and actuarial present value; critiques ethical issues; analyzes how search engine techniques on massive databases transform legal research and considers the impact of statistical analysis and game theory on litigation strategies.

NOTE

This course counts as 0.5 credit in BR=3 and 0.5 credit in BR=5.

This course will only contribute 0.5 credit to the Math Minor program.

Prerequisite: MAT133Y1/ MAT135H1/ MAT135H5/ MAT136H1/ MAT136H5/ MAT137Y1/ MAT137Y5/ (MAT137H5, MAT139H5)/ MAT157Y1/ MAT157Y5/ (MAT157H5, MAT159H5), MAT221H1/ MAT223H1/ MAT240H1

Breadth Requirements: The Physical and Mathematical Universes (5), Society and its Institutions (3)

MAT309H1 - Introduction to Mathematical Logic

Hours: 36L

Predicate calculus. Relationship between truth and provability; Gödel's completeness theorem. First order arithmetic as an example of a first-order system. Gödel's incompleteness theorem; outline of its proof. Introduction to recursive functions.

Prerequisite: MAT257Y1/ [MAT223H1/ MATA23H3/ MAT223H5/ MAT240H1/ MAT240H5, MAT235Y1/ MAT235Y5/ (MAT232H5, MAT236H5)/ (MATB41H3, MATB42H3/ MATB43H3)/ MAT237Y1/ MAT237Y5, MAT246H1/ MAT157Y1/ (MAT157H5, MAT159H5)/ MAT157Y5/ CSC236H1/ CSC240H1]

Exclusion: CSC438H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT315H1 - Introduction to Number Theory

Hours: 36L

Elementary topics in number theory: arithmetic functions; polynomials over the residue classes modulo m ; characters on the residue classes modulo m ; quadratic reciprocity law; representation of numbers as sums of squares.

Prerequisite: (MAT223H1/ MATA23H3/ MAT223H5/ MAT240H1/ MAT240H5, MAT235Y1/ MAT235Y5/ (MAT232H5, MAT236H5)/ (MATB41H3, MATB42H3)/ MAT237Y1/ (MATB41H3, MATB42H3, MATB43H3)/ MAT237Y5, MAT246H1/ CSC236H1/ CSC240H1)/ MAT157Y1/ MAT157Y5/ (MAT157H5, MAT159H5)/ MAT247H1/ MAT247H5

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT327H1 - Introduction to Topology

Hours: 36L

Metric spaces, topological spaces and continuous mappings; separation, compactness, connectedness. Fundamental group and covering spaces. Brouwer fixed-point theorem. Students in the math specialist program wishing to take additional topology courses are advised to obtain permission to take MAT1300H, MAT1301H.

Prerequisite: MAT157Y1/ MAT157Y5/ (MAT157H5, MAT159H5)/ [MAT237Y1/ (MATB41H3, MATB42H3/ MATB43H3/ MAT237Y5), MAT246H1]

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT329Y1 - Concepts in Elementary Mathematics

Hours: 72L

This course is aimed at students intending to become elementary school teachers. Emphasis is placed on the formation and development of fundamental reasoning and learning skills required to understand and to teach mathematics at the elementary level. Topics may include: Problem Solving and Strategies, Sets and Elementary Logic, Numbers and Elements of Number Theory, Introductory Probability and Fundamentals of Geometry.

The course may include an optional practicum in school classrooms.

Prerequisite: 5.0 credits with a CGPA of at least 2.5, and MAT137Y1/ MAT137Y5/ (MAT137H5, MAT139H5)/ MAT138H1/ (MAT223H1/ MAT240H1)/ [MAT246H1/ MAT157Y1/ MAT157Y5/ (MAT157H5, MAT159H5)]

Exclusion: MAT382H5

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT332H1 - Introduction to Graph Theory

Hours: 36L

This course will explore the following topics: Graphs, subgraphs, isomorphism, trees, connectivity, Euler and Hamiltonian properties, matchings, vertex and edge colourings, planarity, network flows and strongly regular graphs. Participants will be encouraged to use these topics and execute applications to such problems as timetabling, tournament scheduling, experimental design and finite geometries.

Prerequisite: MAT224H1/ MATB24H3/ MAT224H5/ MAT247H1/ MAT247H5

Recommended Preparation: Students are encouraged to take MAT301H1 or MAT347Y1 concurrently or prior to undertaking this course.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT334H1 - Complex Variables

Hours: 36L

Theory of functions of one complex variable, analytic and meromorphic functions. Cauchy's theorem, residue calculus, conformal mappings, introduction to analytic continuation and harmonic functions.

Prerequisite: [MAT223H1](#)/ [MATA23H3](#)/ [MAT223H5](#)/ [MAT240H1](#)/ [MAT240H5](#), [MAT235Y1](#)/ [MAT235Y5](#)/ ([MAT232H5](#), [MAT236H5](#))/ ([MATB41H3](#), [MATB42H3](#))/ [MAT237Y1](#)/ ([MATB41H3](#), [MATB42H3](#), [MATB43H3](#))/ [MAT237Y5](#)/ [MAT257Y1](#)

Exclusion: [MAT354H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT335H1 - Chaos, Fractals and Dynamics

Hours: 36L

An elementary introduction to a modern and fast-developing area of mathematics. One-dimensional dynamics: iterations of quadratic polynomials. Dynamics of linear mappings, attractors. Bifurcation, Henon map, Mandelbrot and Julia sets. History and applications.

Prerequisite: [MAT137Y1](#)/ ([MATA30H3](#), [MATA31H3](#), [MATA37H3](#))/ [MAT137Y5](#)/ ([MAT137H5](#), [MAT139H5](#))/ [MAT157Y1](#)/ [MAT157Y5](#)/ ([MAT157H5](#), [MAT159H5](#))/ [MAT235Y1](#)/ [MAT235Y5](#)/ ([MAT232H5](#), [MAT236H5](#))/ ([MATB41H3](#), [MATB42H3](#))/ [MAT237Y1](#)/ ([MATB41H3](#), [MATB42H3](#), [MATB43H3](#))/ [MAT237Y5](#), [MAT223H1](#)/ [MATA23H3](#)/ [MAT223H5](#)/ [MAT240H1](#)/ [MAT240H5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT336H1 - Elements of Analysis

Hours: 36L/12T

This course provides the foundations of analysis and rigorous calculus for students who will take subsequent courses where these mathematical concepts are central of applications, but who have only taken courses with limited proofs. Topics include topology of \mathbb{R}^n , implicit and inverse function theorems and rigorous integration theory.

Prerequisite: [MAT223H1](#)/ [MATA23H3](#)/ [MAT223H5](#)/ [MAT240H1](#)/ [MAT240H5](#), [MAT235Y1](#)/ [MAT235Y5](#)/ ([MAT232H5](#), [MAT236H5](#))/ ([MATB41H3](#), [MATB42H3](#))/ [MAT237Y1](#)/ ([MATB41H3](#), [MATB42H3](#), [MATB43H3](#))/ [MAT237Y5](#)/ ([MAT185H1](#), [MAT195H1](#)/ [ESC195H1](#))

Exclusion: [MAT257Y1](#)/ [MAT337H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT337H1 - Introduction to Real Analysis

Hours: 36L

Construction of Real Numbers. Metric spaces; compactness and connectedness. Sequences and series of functions, power series; modes of convergence. Interchange of limiting processes; differentiation of integrals. Function spaces; Weierstrass approximation; Fourier series. Contraction mappings; existence and uniqueness of solutions of ordinary differential equations. Countability; Cantor set; Hausdorff dimension.

Prerequisite: [MAT257Y1](#)/ ([MAT224H1](#)/ [MATA24H3](#)/ [MAT224H5](#)/ [MAT247H1](#)/ [MAT247H5](#), [MAT235Y1](#)/ [MAT235Y5](#)/ ([MAT232H5](#), [MAT236H5](#))/ ([MATB41H3](#), [MATB42H3](#)/ [MATB43H3](#))/ [MAT237Y1](#)/ [MAT237Y5](#), [MAT246H1](#)/ [MAT157Y1](#))

Exclusion: [MAT357H1](#)/ [MAT378H5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT344H1 - Introduction to Combinatorics

Hours: 36L

Basic counting principles, generating functions, permutations with restrictions. Fundamentals of graph theory with algorithms; applications (including network flows). Combinatorial structures including block designs and finite geometries.

Prerequisite: [MAT223H1](#)/ [MATA23H3](#)/ [MAT223H5](#)/ [MAT240H1](#)/ [MAT240H5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

APM346H1 - Partial Differential Equations

Hours: 36L

Sturm-Liouville problems, Green's functions, special functions (Bessel, Legendre), partial differential equations of second order, separation of variables, integral equations, Fourier transform, stationary phase method.

Prerequisite: [MAT235Y1](#)/ [MAT235Y5](#)/ ([MAT232H5](#), [MAT236H5](#))/ ([MATB41H3](#), [MATB42H3](#))/ [MAT237Y1](#)/ [MAT237Y5](#)/ [MAT257Y1](#), ([MAT244H1](#)/ [MATB44H3](#)/ [MAT244H5](#)/ [MAT267H1](#))

Exclusion: [MAT351Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT347Y1 - Groups, Rings and Fields

Hours: 72L/24T

Groups, subgroups, quotient groups, Sylow theorems, Jordan-Hölder theorem, finitely generated abelian groups, solvable groups. Rings, ideals, Chinese remainder theorem; Euclidean domains and principal ideal domains: unique factorization. Noetherian rings, Hilbert basis theorem. Finitely generated modules. Field extensions, algebraic closure, straight-edge and compass constructions. Galois theory, including insolubility of the quintic.

Prerequisite: [MAT257Y1](#)/(85% in [MAT247H1](#)/[MAT247H5](#))

Breadth Requirements: The Physical and Mathematical Universes (5)

APM348H1 - Mathematical Modelling

Previous Course Number: MAT482

Hours: 36L/22P

An overview of mathematical modelling. A variety of approaches for representing physical situations mathematically followed by analytical techniques and numerical simulations to gain insight. Questions from biology, economics, engineering, medicine, physics, physiology, and the social sciences formulated as problems in optimization, differential equations, and probability. Precise content varies with instructor.

Prerequisite: [MAT244H1](#)/[MAT267H1](#), [MAT224H1](#)/[MAT247H1](#), [STA237H1](#)/[STA247H1](#)/[STA257H1](#)/[MAT377H1](#)

Exclusion: [MAT482H1](#) (Topics in Mathematics: Topics in Mathematical Modelling), offered in Winter 2019

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT351Y1 - Partial Differential Equations

Hours: 72L

This is a first course in Partial Differential Equations, intended for Mathematics students with interests in analysis, mathematical physics, geometry, and optimization. The examples to be discussed include first-order equations, harmonic functions, the diffusion equation, the wave equation, Schrödinger's equation, and eigenvalue problems. In addition to the classical representation formulas for the solutions of these

equations, there are techniques that apply more broadly: the notion of well-posedness, the method of characteristics, energy methods, maximum and comparison principles, fundamental solutions, Green's functions, Duhamel's principle, Fourier series, the min-max characterization of eigenvalues, Bessel functions, spherical harmonics, and distributions. Nonlinear phenomena such as shock waves and solitary waves are also introduced.

Prerequisite: [MAT257Y1](#)/[MAT237Y1](#) (85%), [MAT267H1](#)

Exclusion: [APM351Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT354H1 - Complex Analysis I

Hours: 36L

Complex numbers, the complex plane and Riemann sphere, Möbius transformations, elementary functions and their mapping properties, conformal mapping, holomorphic functions, Cauchy's theorem and integral formula. Taylor and Laurent series, maximum modulus principle, Schwarz' lemma, residue theorem and residue calculus.

Prerequisite: [MAT257Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT357H1 - Foundations of Real Analysis

Hours: 36L

Function spaces; Arzela-Ascoli theorem, Weierstrass approximation theorem, Fourier series. Introduction to Banach and Hilbert spaces; contraction mapping principle, fundamental existence and uniqueness theorem for ordinary differential equations. Lebesgue integral; convergence theorems, comparison with Riemann integral, L^p spaces. Applications to probability.

Prerequisite: [MAT257Y1](#)

Exclusion: [MAT438H5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT363H1 - Geometry of Curves and Surfaces

Hours: 36L

Curves and surfaces in 3-spaces. Frenet formulas. Curvature and geodesics. Gauss map. Minimal surfaces.

Gauss-Bonnet theorem for surfaces. Surfaces of constant curvature.

Prerequisite: MAT224H1/ MATB24H3/ MAT224H5/ MAT247H1/ MAT247H5, MAT237Y1/ (MATB41H3, MATB42H3, MATB43H3)/ MAT237Y5/ MAT257Y1 (MAT257Y1 can be taken concurrently). For FASE students, MAT185H1, MAT194H1, MAT195H1, AER210H1.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT367H1 - Differential Geometry

Hours: 36L

Manifolds, partitions of unity, submersions and immersions, vector fields, vector bundles, tangent and cotangent bundles, foliations and Frobenius' theorem, multilinear algebra, differential forms, Stokes' theorem, Poincare-Hopf theorem.

Prerequisite: MAT257Y1/ [MAT224H1/ MAT247H1, MAT237Y1, MAT246H1/ MAT157Y1/ MAT157Y5/ (MAT157H5, MAT159H5)]

Recommended Preparation: MAT257Y1, MAT240H1, MAT247H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT370H1 - Introduction to Mathematical Probability

Hours: 36L/12T

A rigorous introduction to the basic concepts of probability without measure theory. Random variables and their distributions, Independence, Limit theorems, Conditional Probability, Markov chains

Prerequisite: MAT224H1/ MAT224H5, MAT235Y1/ (MAT232H5, MAT236H5)/ MAT237Y1/ MAT257Y1, MAT246H1

Exclusion: MAT377H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT377H1 - Mathematical Probability Theory

Hours: 36L/12T

This course introduces students to various topics in mathematical probability theory. Topics include basic concepts (such as probability, random variables,

expectations, conditional probability) from a mathematical point of view, examples of distributions and stochastic processes and their properties, convergence results (such as the law of large numbers, central limit theorem, random series, etc.), various inequalities, and examples of applications of probabilistic ideas beyond statistics (for example, in geometry and computer science).

Prerequisite: MAT247H1/ MAT247H5, MAT257Y1

Exclusion: MAT370H1, STA347H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT382H1 - Topics in Mathematics

Hours: 36L

A course in mathematics on a topic outside the current undergraduate offerings. For information on the specific topic to be studied and possible additional prerequisites, go to <http://www.math.toronto.edu/cms/current-students-ug/>

Prerequisite: 2.5 AMP/MAT credits at the 100/200-level. Possible additional topic-specific prerequisites.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT390H1 - History of Mathematics up to 1700

Hours: 24L/12T

A survey of ancient, medieval, and early modern mathematics with emphasis on historical issues.

Prerequisite: 1.0 APM/MAT credit at the 200-level

Exclusion: HPS309H1/ HPS310Y1/ HPS390H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT391H1 - History of Mathematics after 1700

Hours: 24L/12T

A survey of the development of mathematics from 1700 to the present with emphasis on technical development.

Prerequisite: 1.0 APM/MAT credit at the 200 level

Exclusion: HPS309H1/ HPS310H1/ HPS391H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT395H1 - Independent Reading in Mathematics

Independent reading under the direction of a faculty member. Topic must be outside current undergraduate offerings. Similar workload to a 36L course. Not eligible for CR/NCR option.

Completed applications for this course are due to the Math Undergraduate Program Office no later than the third day of the term that the reading course will start.

Prerequisite: Minimum GPA of 3.5 in APM and MAT courses. Permission of the Associate Chair for Undergraduate Studies and of the prospective supervisor.
Breadth Requirements: The Physical and Mathematical Universes (5)

APM396H1 - Independent Reading in Applied Mathematics

Independent study under the direction of a faculty member. Topic must be outside undergraduate offerings. Similar workload to a 36L course. Not eligible for CR/NCR option.

This course requires an application. Completed applications for this course are due to the Math Undergraduate Program Office no later than the third day of the term that the reading course will start.

Prerequisite: Minimum GPA 3.5 for APM and MAT courses, permission of the Associate Chair for Undergraduate Studies and of the prospective supervisor.
Breadth Requirements: The Physical and Mathematical Universes (5)

MAT396H1 - Independent Reading in Mathematics

Independent study under the direction of a faculty member. Topic must be outside undergraduate offerings. Similar workload to a 36L course. Not eligible for CR/NCR option.

Completed applications for this course are due to the Math Undergraduate Program Office no later than the third day of the term that the reading course will start.

Prerequisite: Minimum GPA of 3.5 in APM and MAT courses. Permission of the Associate Chair for Undergraduate Studies and of the prospective supervisor.
Breadth Requirements: The Physical and Mathematical Universes (5)

MAT397Y1 - Research Project in Mathematics

Independent research under the direction of a faculty member. Workload similar to a 72L course. Not eligible for CR/NCR option.

Completed applications for this course are due to the Math Undergraduate Program Office no later than the third day of the term that the reading course will start.

Prerequisite: Minimum GPA of 3.5 in APM and MAT courses. Permission of the Associate Chair for Undergraduate Studies and of the prospective supervisor.
Breadth Requirements: The Physical and Mathematical Universes (5)

MAT398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

MAT398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

MAT399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

MAT401H1 - Polynomial Equations and Fields

Hours: 36L

Commutative rings; quotient rings. Construction of the rationals. Polynomial algebra. Fields and Galois theory: Field extensions, adjunction of roots of a polynomial. Constructibility, trisection of angles, construction of regular

polygons. Galois groups of polynomials, in particular cubics, quartics. Insolvability of quintics by radicals.

Prerequisite: [MAT301H1](#)

Exclusion: [MAT347Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT402H1 - Classical Geometries

Hours: 36L

Euclidean and non-Euclidean plane and space geometries. Real and complex projective space. Models of the hyperbolic plane. Connections with the geometry of surfaces.

Prerequisite: [MAT301H1](#)/ [MAT347Y1](#), [MAT235Y1](#)/ [MAT237Y1](#)/ [MAT257Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT403H1 - Classical Geometries II

Hours: 36L

This course is the second part of the "Classical Geometries" [MAT402H1](#) course. It is mainly dedicated to detailed study of classical real projective geometry and projective geometry over other fields. It is also devoted to the study of spherical and elliptic geometry.

Prerequisite: [MAT235Y1](#)/ [MAT237Y1](#)/ [MAT257Y1](#), [MAT301H1](#)/ [MAT347Y1](#)

Recommended Preparation: [MAT402H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT409H1 - Set Theory

Hours: 36L

Set theory and its relations with other branches of mathematics. ZFC axioms. Ordinal and cardinal numbers. Reflection principle. Constructible sets and the continuum hypothesis. Introduction to independence proofs. Topics from large cardinals, infinitary combinatorics and descriptive set theory.

Joint undergraduate/graduate course - [MAT409H1](#)/MAT1404H

Prerequisite: [MAT357H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT415H1 - Algebraic Number Theory

Hours: 36L

A selection from the following: finite fields; global and local fields; valuation theory; ideals and divisors; differentials and discriminants; ramification and inertia; class numbers and units; cyclotomic fields; Diophantine equations.

Prerequisite: [MAT347Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT417H1 - Analytic Number Theory

Hours: 36L

A selection from the following: distribution of primes, especially in arithmetic progressions and short intervals; exponential sums; Hardy-Littlewood and dispersion methods; character sums and L-functions; the Riemann zeta-function; sieve methods, large and small; Diophantine approximation, modular forms.

Joint undergraduate/graduate course - [MAT417H1](#)/MAT1202H

Prerequisite: [MAT334H1](#)/ [MAT354H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

APM421H1 - Mathematical Foundations of Quantum Mechanics and Quantum Information Theory

Hours: 36L

Key concepts and mathematical structure of Quantum Mechanics, with applications to topics of current interest such as quantum information theory. The core part of the course covers the following topics: Schrodinger equation, quantum observables, spectrum and evolution, motion in electro-magnetic field, angular momentum and $O(3)$ and $SU(2)$ groups, spin and statistics, semi-classical asymptotics, perturbation theory. More advanced topics may include: adiabatic theory and geometrical phases, Hartree-Fock theory, Bose-Einstein condensation, the second quantization, density matrix and quantum statistics, open systems and Lindblad evolution, quantum entropy, quantum channels, quantum Shannon theorems.

Joint undergraduate/graduate course - [APM421H1](#)/MAT1723H

Prerequisite: ([MAT224H1](#)/ [MAT247H1](#), [MAT337H1](#))/
[MAT357H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT425H1 - Differential Topology

Hours: 36L

Smooth manifolds, Sard's theorem and transversality. Morse theory. Immersion and embedding theorems. Intersection theory. Borsuk-Ulam theorem. Vector fields and Euler characteristic. Hopf degree theorem. Additional topics may vary.

Prerequisite: [MAT257Y1](#), [MAT327H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

APM426H1 - General Relativity

Hours: 36L

Einstein's theory of gravity. Special relativity and the geometry of Lorentz manifolds. Gravity as a manifestation of spacetime curvature. Einstein's equations. Cosmological implications: big bang and inflationary universe. Schwarzschild stars: bending of light and perihelion precession of Mercury. Topics from black hole dynamics and gravitational waves. The Penrose singularity theorem.

Joint undergraduate/graduate course -
[APM426H1](#)/[MAT1700H](#)

Prerequisite: [MAT363H1](#)/ [MAT367H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT436H1 - Introduction to Linear Operators

Hours: 36L

The course will survey the branch of mathematics developed (in its abstract form) primarily in the twentieth century and referred to variously as functional analysis, linear operators in Hilbert space, and operator algebras, among other names (for instance, more recently, to reflect the rapidly increasing scope of the subject, the phrase non-commutative geometry has been introduced). The intention will be to discuss a number of the topics in Pedersen's textbook *Analysis Now*. Students will be encouraged to lecture on some of the material, and also to

work through some of the exercises in the textbook (or in the suggested reference books).

Joint undergraduate/graduate course -
[MAT436H1](#)/[MAT1011H](#)

Prerequisite: 5.0 MAT credits, including [MAT224H1](#)/ [MAT247H1](#) and [MAT237Y1](#)/ [MAT257Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT437H1 - K-Theory and C* Algebras

Hours: 36L

The theory of operator algebras was begun by John von Neumann eighty years ago. In one of the most important innovations of this theory, von Neumann and Murray introduced a notion of equivalence of projections in a self-adjoint algebra ($*$ -algebra) of Hilbert space operators that was compatible with addition of orthogonal projections (also in matrix algebras over the algebra), and so gave rise to an abelian semigroup, now referred to as the Murray-von Neumann semigroup.

Later, Grothendieck in geometry, Atiyah and Hirzebruch in topology, and Serre in the setting of arbitrary rings (pertinent for instance for number theory), considered similar constructions. The enveloping group of the semigroup considered in each of these settings is now referred to as the K-group (Grothendieck's terminology), or as the Grothendieck group.

Among the many indications of the depth of this construction was the discovery of Atiyah and Hirzebruch that Bott periodicity could be expressed in a simple way using the K-group. Also, Atiyah and Singer famously showed that K-theory was important in connection with the Fredholm index. Partly because of these developments, K-theory very soon became important again in the theory of operator algebras. (And in turn, operator algebras became increasingly important in other branches of mathematics.)

The purpose of this course is to give a general, elementary, introduction to the ideas of K-theory in the operator algebra context. (Very briefly, K-theory generalizes the notion of dimension of a vector space.)

The course will begin with a description of the method (K-theoretical in spirit) used by Murray and von Neumann to give a rough initial classification of von Neumann algebras (into types I, II, and III). It will centre around the relatively recent use of K-theory to study Bratteli's approximately finite-dimensional C^* -algebras---both to classify them (a result that can be formulated and proved purely algebraically), and to prove that the class of these C^* -algebras---what Bratteli called AF algebras---is closed

under passing to extensions (a result that uses the Bott periodicity feature of K-theory).

Students will be encouraged to prepare oral or written reports on various subjects related to the course, including basic theory and applications.

Joint undergraduate/graduate course -
MAT437H1/MAT1016H

Prerequisite: 5.0 MAT credits, including MAT224H1/
MAT247H1 and MAT237Y1/ MAT257Y1

Recommended Preparation: Students are encouraged to execute basic research that answers the question, what is an abelian group?

Breadth Requirements: The Physical and Mathematical Universes (5)

APM441H1 - Asymptotic and Perturbation Methods

Hours: 36L

Asymptotic series. Asymptotic methods for integrals: stationary phase and steepest descent. Regular perturbations for algebraic and differential equations. Singular perturbation methods for ordinary differential equations: W.K.B., strained co-ordinates, matched asymptotics, multiple scales. (Emphasizes techniques; problems drawn from physics and engineering)

Prerequisite: APM346H1/ MAT351Y1, MAT334H1/
MAT354H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT445H1 - Representation Theory

Hours: 36L

A selection of topics from: Representation theory of finite groups, topological groups and compact groups. Group algebras. Character theory and orthogonality relations. Weyl's character formula for compact semisimple Lie groups. Induced representations. Structure theory and representations of semisimple Lie algebras. Determination of the complex Lie algebras.

Joint undergraduate/graduate - MAT445H1/MAT1196H

Prerequisite: MAT347Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

APM446H1 - Applied Nonlinear Equations

Hours: 36L

Partial differential equations appearing in physics, material sciences, biology, geometry, and engineering. Nonlinear evolution equations. Existence and long-time behaviour of solutions. Existence of static, traveling wave, self-similar, topological and localized solutions. Stability. Formation of singularities and pattern formation. Fixed point theorems, spectral analysis, bifurcation theory. Equations considered in this course may include: Allen-Cahn equation (material science), Ginzburg-Landau equation (condensed matter physics), Cahn-Hilliard (material science, biology), nonlinear Schroedinger equation (quantum and plasma physics, water waves, etc). mean curvature flow (geometry, material sciences), Fisher-Kolmogorov-Petrovskii-Piskunov (combustion theory, biology), Keller-Segel equations (biology), and Chern-Simons equations (particle and condensed matter physics).

Joint undergraduate/graduate course -
APM446H1/MAT1508H

Prerequisite: APM346H1/ MAT351Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT448H1 - Introduction to Commutative Algebra and Algebraic Geometry

Hours: 36L

Basic notions of algebraic geometry, with emphasis on commutative algebra or geometry according to the interests of the instructor. Algebraic topics: localization, integral dependence and Hilbert's Nullstellensatz, valuation theory, power series rings and completion, dimension theory. Geometric topics: affine and projective varieties, dimension and intersection theory, curves and surfaces, varieties over the complex numbers. This course will be offered in alternating years.

Joint undergraduate/graduate course -
MAT448H1/MAT1155H

Prerequisite: MAT347Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT449H1 - Algebraic Curves

Hours: 36L

Projective geometry. Curves and Riemann surfaces. Algebraic methods. Intersection of curves; linear systems; Bezout's theorem. Cubics and elliptic curves. Riemann-Roch theorem. Newton polygon and Puiseux expansion; resolution of singularities. This course will be offered in alternating years.

Prerequisite: [MAT347Y1](#), [MAT354H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT454H1 - Complex Analysis II

Hours: 36L

Harmonic functions, Harnack's principle, Poisson's integral formula and Dirichlet's problem. Infinite products and the gamma function. Normal families and the Riemann mapping theorem. Analytic continuation, monodromy theorem and elementary Riemann surfaces. Elliptic functions, the modular function and the little Picard theorem.

Joint undergraduate/graduate course -
[MAT454H1/MAT1002H](#)

Prerequisite: [MAT354H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT457H1 - Advanced Real Analysis I

Hours: 36L

Lebesgue measure and integration; convergence theorems, Fubini's theorem, Lebesgue differentiation theorem, abstract measures, Caratheodory theorem, Radon-Nikodym theorem. Hilbert spaces, orthonormal bases, Riesz representation theorem, compact operators, L^p spaces, Hölder and Minkowski inequalities.

Joint undergraduate/graduate course -
[MAT457H1/MAT1000H](#)

Prerequisite: [MAT357H1](#)

Exclusion: [MAT457Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT458H1 - Advanced Real Analysis II

Hours: 36L

Fourier series and transform, convergence results, Fourier inversion theorem, L^2 theory, estimates, convolutions.

Banach spaces, duals, weak topology, weak compactness, Hahn-Banach theorem, open mapping theorem, uniform boundedness theorem.

Joint undergraduate/graduate course -
[MAT458H1/MAT1001H](#)

Prerequisite: [MAT457H1](#)

Exclusion: [MAT457Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT461H1 - Hamiltonian Mechanics

Hours: 36L

This course focuses on key notions of classical mechanics: Newton equations, variational principles, Lagrangian formulation and Euler-Lagrange equations, the motion in a central force, the motion of a rigid body, small oscillations, Hamiltonian formulation, canonical transformations, Hamilton-Jacobi theory, action-angle variables, and integrable systems.

Prerequisite: [MAT244H1](#)/ [MAT267H1](#), [MAT337H1](#)/
[MAT367H1](#), [APM346H1](#)/ [MAT351Y1](#)

Recommended Preparation: [MAT267H1](#), [MAT367H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

APM461H1 - Combinatorial Methods

Hours: 36L

A selection of topics from such areas as graph theory, combinatorial algorithms, enumeration, construction of combinatorial identities.

Joint undergraduate/graduate course -
[APM461H1/MAT1302H](#)

Prerequisite: [MAT224H1](#)/ [MAT247H1](#), [MAT137Y1](#)/
[MAT137Y5](#)/ ([MAT137H5](#), [MAT139H5](#))/ [MAT157Y1](#)/
[MAT157Y5](#)/ ([MAT157H5](#), [MAT159H5](#)), [MAT301H1](#)/
[MAT347Y1](#)

Recommended Preparation: [MAT344H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

APM462H1 - Nonlinear Optimization

Hours: 36L

An introduction to first and second order conditions for finite and infinite dimensional optimization problems with

mention of available software. Topics include Lagrange multipliers, Kuhn-Tucker conditions, convexity and calculus of variations. Basic numerical search methods and software packages which implement them will be discussed.

Prerequisite: (MAT223H1, MAT224H1) / MAT247H1, MAT235Y1/ MAT237Y1/ MAT257Y1

Recommended Preparation: MAT336H1/ MAT337H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT464H1 - Riemannian Geometry

Hours: 36L

Riemannian metrics. Levi-Civita connection. Geodesics. Exponential map. Second fundamental form. Complete manifolds and Hopf-Rinow theorem. Curvature tensors. Ricci curvature and scalar curvature. Spaces of constant curvature.

Joint undergraduate/graduate course -
MAT464H1/MAT1342H

Prerequisite: MAT367H1

Breadth Requirements: The Physical and Mathematical Universes (5)

APM466H1 - Mathematical Theory of Finance

Hours: 36L

Introduction to the basic mathematical techniques in pricing theory and risk management: Stochastic calculus, single-period finance, financial derivatives (tree-approximation and Black-Scholes model for equity derivatives, American derivatives, numerical methods, lattice models for interest-rate derivatives), value at risk, credit risk, portfolio theory.

Joint undergraduate/graduate course -
APM466H1/MAT1856H

Prerequisite: APM346H1, STA347H1

Corequisite: STA457H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT475H1 - Problem Solving Seminar

This course addresses the question: How do you attack a problem the likes of which you have never seen before? Students will apply Polya's principles of mathematical

problem solving, draw upon their previous mathematical knowledge, and explore the creative side of mathematics in solving a variety of interesting problems and explaining those solutions to others.

Prerequisite: MAT224H1/ MAT247H1, MAT235Y1/ MAT237Y1/ MAT257Y1, and at least 1.0 credit at the 300+ level in APM/MAT

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT477H1 - Seminar in Mathematics

Seminar in an advanced topic. Content will generally vary from semester to semester. Student presentations are required.

Prerequisite: MAT347Y1, MAT354H1, MAT357H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT478H1 - Seminar in Mathematics

Seminar in an advanced topic. Content will generally vary from semester to semester. Student presentations are required.

Prerequisite: MAT347Y1, MAT354H1, MAT357H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT482H1 - Topics in Mathematics

Hours: 36L

A course in mathematics on a topic outside the current undergraduate offerings. For information on the specific topic to be studied and possible additional prerequisites, go to <http://www.math.toronto.edu/cms/current-students-ug/>.

Joint undergraduate/graduate course -
MAT482H1/MAT1901H

Prerequisite: 6.0 APM/MAT credits at the 100, 200 and 300-level. Possible additional topic-specific prerequisites.

Breadth Requirements: The Physical and Mathematical Universes (5)

MAT483H1 - Topics in Mathematics

Hours: 36L

A course in mathematics on a topic outside the current undergraduate offerings. For information on the specific topic to be studied and possible additional prerequisites, go to <http://www.math.toronto.edu/cms/current-students-ug/>.

Prerequisite: 6.0 APM/MAT credits at the 100, 200 and 300-level. Possible additional topic-specific prerequisites.
Breadth Requirements: The Physical and Mathematical Universes (5)

MAT495H1 - Independent Reading in Mathematics

Independent study under the direction of a faculty member. Topic must be outside undergraduate offerings. Workload equivalent to a 36L course. Not eligible for CR/NCR option.

Completed applications for this course are due to the Math Undergraduate Program Office no later than the third day of the term that the reading course will start.

Prerequisite: Minimum GPA of 3.5 in APM and MAT courses. Permission of the Associate Chair for Undergraduate Studies and of the prospective supervisor
Breadth Requirements: The Physical and Mathematical Universes (5)

APM496H1 - Independent Readings in Applied Mathematics

Independent study under the direction of a faculty member. Topic must be outside current undergraduate offerings. Similar workload to a course that has 36 lecture hours. Not eligible for CR/NCR option.

Completed applications for this course are due to the Math Undergraduate Program Office no later than the third day of the term that the reading course will start.

Prerequisite: minimum GPA 3.5 for APM and MAT courses. Permission of the Associate Chair for Undergraduate Studies and of the prospective supervisor
Breadth Requirements: The Physical and Mathematical Universes (5)

MAT496H1 - Independent Reading in Mathematics

Independent study under the direction of a faculty member. Topic must be outside undergraduate offerings. Workload equivalent to a 36L course. Not eligible for CR/NCR option.

Completed applications for this course are due to the Math Undergraduate Program Office no later than the third day of the term that the reading course will start.

Prerequisite: Minimum GPA of 3.5 in APM and MAT courses. Permission of the Associate Chair for Undergraduate Studies and of the prospective supervisor.
Breadth Requirements: The Physical and Mathematical Universes (5)

MAT497Y1 - Research Project in Mathematics

Independent research under the direction of a faculty member. Not eligible for CR/NCR option. Similar workload to a 72L course.

Completed applications for this course are due to the Math Undergraduate Program Office no later than the third day of the term that the reading course will start.

Prerequisite: Minimum GPA of 3.5 in APM and MAT courses. Permission of the Associate Chair for Undergraduate Studies and of the prospective supervisor
Breadth Requirements: The Physical and Mathematical Universes (5)

MAT499Y1 - Readings in Mathematics

Independent study under the direction of a faculty member. Topic must be outside undergraduate offerings. Workload equivalent to a 72L course. Not eligible for CR/NCR option.

Completed applications for this course are due to the Math Undergraduate Program Office no later than the third day of the term that the reading course will start.

Prerequisite: Minimum GPA of 3.5 in APM and MAT courses. Permission of the Associate Chair for Undergraduate Studies and of the prospective supervisor.
Breadth Requirements: The Physical and Mathematical Universes (5)

Centre for Medieval Studies

Faculty List

Professor and Director

E. Brilli, PhD

Professor and Associate Director

J. Ginther, PhD

Associate Professor and PhD Coordinator

J. Purtle, PhD

Professors

A. Andree, PhD
D. Black, PhD
N. Everett, PhD
J. Haines, PhD
P. King, PhD
J. Magee, PhD
M. Meyerson, PhD
M. Pickave, PhD
M. Stock, PhD

Associate Professors

I. Cochelin, PhD
S. Ghosh, PhD
Y. Iglesias, PhD
D. Kullmann, PhD
B. Miles, PhD
W. Robins, PhD
J. Ross, PhD

Assistant Professors

A. Bolintineanu, PhD
C. O'Hogan, PhD
A. Walton, PhD

Introduction

The Centre for Medieval Studies provides a course in the thousand-year period from the Fall of Rome to the Fall of Constantinople, and beyond. Students can expect to cross the disciplinary boundaries of history, art, literature, philosophy, religion, and history of science, focusing not only on Europe but on the broader Mediterranean and North Sea regions. These courses open up the Centre for the first time to undergraduate students and provide a valuable humanities breadth experience for students who want to experience the culture, poetry, and art of the Middle Ages, as well as medieval music, drama performance and manuscript studies.

Prerequisite: MST201H1, or MST202H1, or Permission of Instructor

Breadth Requirements: Creative and Cultural Representations (1)

Centre for Medieval Studies Courses

MST300H1 - Alexander the Great in the Middle Ages

Hours: 24L/12T

Alexander the Great (356-323 BCE), king of Macedon, was one of the most successful military campaigners the world has ever seen. By the time he was thirty, he had established a vast empire stretching from Greece in the west to India in the east. Fantastic stories and legends about Alexander the Great circulated throughout the medieval world, from Iceland to Iran and from Ethiopia to England. In this course, we explore what different representations of the same figure can tell us about the range of medieval cultures. Through the use of digital tools, students and the instructor work together to explore this rich material. We trace the transmission of Alexander's legend using digital maps. We compare different versions of the same story using text analysis tools. And we curate a small selection of the lavishly-illustrated manuscripts of the Alexander Romance in a digital exhibition.

MST399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

MST404H1 - Languages in Medieval Studies: Palaeography I

Hours: 24L/12T

The course is designed as a practicum in the transcription of scripts from the late Roman Empire to the twelfth century. The goal is to offer students the opportunity to participate in a graduate course in manuscript studies where comparable offerings at the undergraduate level are unavailable.

Prerequisite: Level One Latin pass, permission of the instructor, 8.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

MST405H1 - Languages in Medieval Studies: Palaeography II

Hours: 24L/12T

Study of Latin Scripts from 1200 to 1600, with attention to background of Gothic writing, physical characteristics of manuscripts, library practices and bibliographical resources. The goal is to offer students the opportunity to participate in a graduate course in manuscript studies where comparable offerings at the undergraduate level are unavailable.

Prerequisite: Level One Latin pass, permission of the instructor, 8.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

MST410H1 - Languages for Medieval Studies: Old Norse

Hours: 24L

Introduction to Old Norse language and literature, focusing on basic instruction in Old Norse grammar and short readings from poetic and prose texts. The goal is to offer students the opportunity to participate in a graduate course in medieval languages where comparable offerings at the undergraduate level are unavailable.

Prerequisite: 8.0 credits, permission of the instructor

Recommended Preparation: Previous language study

Breadth Requirements: Creative and Cultural Representations (1)

Molecular Genetics and Microbiology

Faculty List

Chair of the Department of Molecular Genetics

T. Hughes, PhD

Vice Chair

W. W. Navarre, PhD

Associate Chair & Graduate Coordinator

S. Egan, PhD

L. Frappier, PhD

Associate Chair & Undergraduate Coordinator

E. Styles, PhD

R.A. Collins, PhD

Coordinator, Careers, Communication & Alumni Relations

M. Steiner, PhD

LTRI Rep

D. Schramek, PhD

Professors

B. J. Andrews, PhD

I. Andrulis, PhD

P. Awadalla, PhD

G. Bader, PhD

B. J. Blencowe, PhD

C. Boone, PhD

J. Brill, PhD

J. Brumell, PhD

B. Ciruna, PhD

J. M. Claycomb, PhD

A. W. Cochrane, PhD

R. Cohn, PhD

R. A. Collins, PhD

S. Cordes, PhD

L. E. Cowen, PhD

J. Culotti, PhD

A. Davidson, PhD

J. Dennis, PhD

W. B. Derry, PhD

J. Dick, PhD

P. Dirks, PhD

J. Dowling, PhD

D. Durocher, PhD

A. Edwards, PhD

S. Egan, PhD

J. Ellis, PhD

O. Ernst, PhD

L. D. Frappier, PhD

A. G. Fraser, PhD

B. E. Funnell, PhD

B. Gallie, PhD

A. C. Gingras, PhD

S. D. Gray-Owen, PhD

J. F. Greenblatt, PhD

T. Hughes, PhD

C. C. Hui, PhD

M. Justice, PhD

D. Kaplan, PhD

L. Kay, PhD

H. M. Krause, PhD

H. Lipshitz, PhD

J. Liu, PhD

F. Miller, PhD

J. Moffat, PhD

M. Moran, PhD

Q. Morris, PhD

W. W. Navarre, PhD

L. Osborne, PhD

D. J. Parkinson, PhD

C. E. Pearson, PhD

L. Pelletier, PhD

M. Ramalho-Santos, PhD

J. Rini, PhD

J. M. Rommens, PhD

J. Rossant, PhD

F. P. Roth, PhD

P. J. Roy, PhD

S. Scherer, PhD

I. Scott, PhD

F. Sicheri, PhD

A. M. Spence, PhD

I. Stagljar, PhD

L. Stein, PhD

M. Tyers, PhD

D. van der Kooy, PhD

J. Wrana, PhD

Z. Zhang, PhD

M. Zhen, PhD

Associate Professors

M. Brown, MSc, PhD

E. Campos, PhD

A. W. Ensminger, PhD

J. Gillis, PhD

S. Hopyan, PhD

X. Huang, PhD

S. Joshi, DSc, PhD

T. Kim, PhD

B. D. Lavoie, PhD

J. Lefebvre, PhD

M. Meneghini, PhD

J. Park, PhD

J. Reimand, PhD

A. Reinke, PhD

H. Röst, PhD

D. Schramek, PhD

C. Smibert, PhD

B. Steipe, PhD

E. Styles, PhD

M. Taipale, PhD

A. Wilde, PhD
M. Wilson, PhD
R. Yuen, PhD

Assistant Professors

S. Abelson, PhD
A. Babaian, PhD
K. Campbell, DPhil
G. Costain, MD, PhD
P. Delgado Olguin, PhD
A. Deshwar, MD, PhD
M. Hayes, PhD
T. Hurd, PhD
Z. Ivakine, PhD
H. Jackson, PhD
R. Kafri, PhD
B. Kalish, MD
Y. Li, PhD
P. Maass, PhD
R. Montenegro-Burke, PhD
J. Muffat, PhD
K. Okamoto, PhD
S. Protze, PhD
K. Rozen-Gagnon, PhD
J. Simpson, PhD
M. Steiner, PhD
T. Tsukahara, PhD
J.-Y. Youn, PhD
O. Zhulyn, PhD

Introduction

Molecular biology has revolutionized the fields of genetics and microbiology. The Department of Molecular Genetics offers Specialist and Major programs in Molecular Genetics and Microbiology, which emphasize the molecular aspects of both disciplines. Genetics, the science of heredity, and microbiology, the study of microorganisms (microbes), have long served as meeting grounds for a variety of biological disciplines. Developments in genetics and microbiology have contributed greatly to our basic understanding of the fundamental processes of life as well as to the treatment of genetic and infectious diseases.

Of particular significance in molecular genetics has been the development of techniques that permit the isolation, through cloning, of the genes responsible for specific traits, and the detailed analysis of their regulation, interactions, and products. More recently the advent of genome sequencing has fueled efforts to understand in full the information content of the genome and to assign function to every gene, using methods that allow systematic, genome-scale analyses of gene expression, the phenotypic consequences of gene disruption, and the interactions between genes and gene products. Molecular techniques have increased our ability to diagnose and understand viral and bacterial disease, and the complex microbe/host interactions that are involved. The impact of these and other technological advances extend to such

diverse fields as plant and animal developmental biology, virology, immunology, cancer biology, and biotechnology. Studies at a molecular level are essential to understanding the consequences to life when fundamental processes are altered by mutation, by infection, or by the environment.

The Molecular Genetics and Microbiology Specialist program is a research-intensive program and is designed to provide strong in-depth training in science, including critical analyses of scientific concepts and literature, advanced laboratory experience, and detailed understanding and application of molecular biology. Specialists enter the program in 2nd year and then choose one of two Streams, called Genetics and Microbiology, by the start of the third year. Each Stream provides focused training, but there is considerable overlap between the streams, reflective of both the cross-disciplinary requirements of these two rapidly evolving disciplines and the impact of each on areas spanning modern biomedical science.

The Molecular Genetics and Microbiology Major program offers students fundamental training in molecular genetics and microbiology. Students tailor their own program and may focus on a microbiology major, a genetic major, or a combination; they choose a path to suit their specific interests. Students take several advanced courses in these disciplines, but the Major allows them to choose the breadth of their training by combining the MGY Major with another Major of interest.

The Department of Molecular Genetics is also a cosponsor of the Major program in Genome Biology, with the Departments of Cell and Systems Biology (CSB), and Ecology and Evolutionary Biology (EEB). See the Biology program listings for details of the Genome Biology Major.

Career opportunities for graduates include employment in research institutes, universities and other educational institutions, and industry. The programs provide excellent preparation for post-graduate research and professional programs.

Undergraduate Coordinator: Dr. Rick Collins
(email: rick.collins@utoronto.ca)

Undergraduate Office/General Inquiries: Medical Sciences Building Rm 4398 (416-978-8359; email: studentservices.mogen@utoronto.ca)

More information is available on our website: <http://www.moleculargenetics.utoronto.ca/>

Molecular Genetics and Microbiology Programs

Molecular Genetics and Microbiology Specialist (Science Program) - ASSPE1387

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade and Variable Minimum Grade Average

Minimum grades combined with a minimum grade average in required courses or their equivalents are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO120H1, BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- (MAT135H1 and MAT136H1)/ MAT137Y1/
MAT157Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 75% in each course, or a grade average lower than 80% in these required courses will not be considered for admission. Please note that obtaining the minimum final grades and grade average does not guarantee admission to the program. While it is difficult to predict what will constitute "competitive" course marks in a given year, based on previous years the estimate is: course marks = mid 80s; average = mid 80s.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at studentservices.mogen@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment. Additional information is also available by contacting the Undergraduate Program Coordinator (studentservices.mogen@utoronto.ca).

Completion Requirements:

(14.0 credits)

First Year:

BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/
CHM151Y1; (MAT135H1, MAT136H1)/ MAT137Y1

First or Second Year:

(PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Second Year:

BCH242Y1; BIO230H1/ BIO255H1, HMB265H1;
MGY280H1, CHM247H1, STA220H1/ STA288H1

Third Year:

Genetics Stream:

1. MGY340H1, MGY350H1, MGY311Y1, MGY314H1,
MGY315H1
2. 0.5 credit from BCH340H1, BCH377H1; MGY360H1,
MGY377H1, MGY378H1

Microbiology Stream

1. IMM341H1, IMM351H1; MGY311Y1, MGY377H1,
MGY378H1, MGY380H1, MGY381H1

Fourth Year:

Genetics Stream:

1. MGY420H1
plus 2.5 credits from Genetics Lists 1 and 2, distributed as follows:
2. At least 1.5 credits must be taken from list 1:
MGY425H1, MGY428H1, MGY460H1, MGY470H1
3. Up to 1.0 credit may be taken from list 2: MGY440H1,
MGY480Y1/ one or both of (MGY481H1 and
MGY482H1), BCH428H1, BCH440H1, BCH441H1/
CSB472H1, BCH447H1, BCH448H1, EEB460H1

Microbiology Stream:

- 2.5 credits from Microbiology Lists 1 and 2, distributed as follows:
1. At least 1.5 credits must be taken from list 1:
BCH449H1; IMM428H1, IMM430H1, IMM435H1;
LMP402H1, LMP403H1, LMP436H1; MGY428H1,
MGY440H1, MIJ485H1; NFS485H1
2. Up to 1.0 credit may be taken from list 2: MGY360H1,
MGY420H1, MGY425H1, MGY470H1, MGY480Y1/ one
or both of (MGY481H1 and MGY482H1), BCH350H1,
BCH428H1, MGY441H1/ BCH441H1/ CSB472H1,
BCH445H1

Molecular Genetics And Microbiology Specialist: Genetics Stream (Science Program) - ASSPE1388

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enroll.

Variable Minimum Grade and Variable Minimum Grade Average

Minimum grades combined with a minimum grade average in required courses or their equivalents are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO120H1, BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 75% in each course, or a grade average lower than 80% in these required courses will not be considered for admission. Please note that obtaining the minimum final grades and grade average does not guarantee admission to the program. While it is difficult to predict what will constitute "competitive" course marks in a given year, based on previous years the estimate is: course marks = mid 80s; average = mid 80s.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at studentservices.mogen@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment. Additional information is also available by contacting the Undergraduate Program Coordinator (studentservices.mogen@utoronto.ca).

Completion Requirements:

(14.0 credits)

First Year:

BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1; (MAT135H1, MAT136H1)/ MAT137Y1

First or Second Year:

(PHY131H1, PHY132H1)/ (PHY151H1, PHY152H1)

Second Year:

BCH242Y1; BIO230H1/ BIO255H1, HMB265H1; MGY280H1, CHM247H1, STA220H1/ STA288H1

Third Year (Genetics Stream):

1. MGY340H1, MGY350H1, MGY311Y1, MGY314H1, MGY315H1
2. 0.5 credit from BCH340H1, BCH377H1, MGY360H1, MGY377H1, MGY378H1

Fourth Year (Genetics Stream):

1. MGY420H1,
plus 2.5 credits from Genetics Lists 1 and 2, distributed as follows:
2. At least 1.5 credits must be taken from list 1:
MGY425H1, MGY428H1, MGY460H1, MGY470H1
3. Up to 1.0 credit may be taken from list 2:
MGY440H1, MGY480Y1/ one or both of (MGY481H1 and MGY482H1), BCH428H1, BCH440H1, MGY441H1/ BCH441H1/ CSB472H1, BCH447H1, BCH448H1, EEB460H1

Molecular Genetics And Microbiology Specialist: Microbiology Stream (Science Program) - ASSPE1389

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enroll.

Variable Minimum Grade and Variable Minimum Grade Average

Minimum grades combined with a minimum grade average in required courses or their equivalents are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses must be completed:

- BIO120H1, BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 75% in each course, or a grade average lower than 80% in these required courses will not be considered for admission.

Please note that obtaining the minimum final grades and grade average does not guarantee admission to the program. While it is difficult to predict what will constitute "competitive" course marks in a given year, based on previous years the estimate is: course marks = mid 80s; average = mid 80s.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at studentservices.mogen@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment. Additional information is also available by contacting the Undergraduate Program Coordinator (studentservices.mogen@utoronto.ca).

Completion Requirements:

(14.0 credits)

First Year:

([BIO120H1](#), [BIO130H1](#)), ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#), ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)

First or Second Year:

([PHY131H1](#), [PHY132H1](#))/ ([PHY151H1](#), [PHY152H1](#))

Second Year:

[BCH242Y1](#), [BIO230H1](#)/ [BIO255H1](#), [HMB265H1](#), [MGY280H1](#), [CHM247H1](#), [STA220H1](#)/ [STA288H1](#)

Third Year (Microbiology Stream):

1. [IMM341H1](#), [IMM351H1](#), [MGY311Y1](#), [MGY377H1](#), [MGY378H1](#), [MGY380H1](#), [MGY381H1](#)

Fourth Year (Microbiology Stream):

2.5 credits from Microbiology Lists 1 and 2, distributed as follows:

1. At least 1.5 credits must be taken from list 1:

[MGY428H1](#), [MGY440H1](#), [MIJ485H1](#), [BCH449H1](#), [IMM428H1](#), [IMM430H1](#), [IMM435H1](#), [LMP402H1](#), [LMP403H1](#), [LMP436H1](#), [NFS485H1](#)

2. Up to 1.0 credit may be taken from list 2: [MGY360H1](#), [MGY420H1](#), [MGY425H1](#), [MGY470H1](#), [MGY480Y1](#)/ one or both of ([MGY481H1](#) and [MGY482H1](#)), [BCH350H1](#), [BCH428H1](#), [MGY441H1](#)/ [BCH441H1](#)/ [CSB472H1](#), [BCH445H1](#)

Molecular Genetics and Microbiology Major (Science Program) - ASMAJ1387

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade and Variable Minimum Grade Average

Minimum grades combined with a minimum grade average in required courses or their equivalents are needed for entry, and these minimums change each year depending on available spaces and the number of applicants. The following courses must be completed:

- [BIO120H1](#), [BIO130H1](#)
- ([CHM135H1](#) and [CHM136H1](#))/ [CHM151Y1](#)
- ([MAT135H1](#) and [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60% in each course, or a grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining the minimum final grades and grade average does not guarantee admission to the program. While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 70s; average = mid 70s. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at studentservices.mogen@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment. Additional information is also available by contacting the Undergraduate Coordinator.

Completion Requirements:

(8.0 credits)

First Year:

BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/
CHM151Y1; (MAT135H1, MAT136H1)/ MAT137Y1

Second Year:

BCH210H1; BIO230H1/ BIO255H1, BIO260H1/
HMB265H1, MGY200H1

Third and Fourth Years:

BCH311H1/ CSB349H1/ MGY311Y1; 2.5 credits from

Molecular Genetics and Microbiology Courses

MGY200H1 - An Introduction to Molecular Genetics and Microbiology

Hours: 24L

Introduction to the core concepts of genetics and microbiology. Included are also topical biological problems and cutting-edge scientific approaches with some examples from world-class Toronto labs. Historical context is often used to deliver material. Topics include: core concepts in genetics, an introduction to cancer and stem cells; the genetic regulation of aging; core concepts in microbiology; emerging and recurring microbial threats; genetic engineering.

Prerequisite: BIO120H1, BIO230H1/ BIO255H1

Breadth Requirements: Living Things and Their Environment (4)

MGY250H1 - Introduction to Medical Genetics

Hours: 36L

An introduction to medical genetics including the “omics” revolution, stem cells, cancer genetics, finding disease-causing mutations, genetic counselling and gene therapy. The course material is delivered online and is approximately equivalent to 36 lecture hours. Midterm and final exam are taken on campus or at a pre-approved site off-campus.

Prerequisite: BIO120H1, BIO130H1

Breadth Requirements: Living Things and Their Environment (4)

MGY277H1 - Introduction to Medical Microbiology

Hours: 36L

MGY314H1, MGY315H1, MGY340H1, MGY350H1,
MGY360H1, MGY377H1, MGY378H1, MGY379Y1/
MGY380H1, MGY381H1, MGY420H1, MGY425H1,
MGY428H1, MGY434H1, MGY440H1, MGY460H1,
MGY470H1, MIJ485H1, BCH428H1 (at least 0.5 credit must be a laboratory course and at least 0.5 credit must be a 400-level course, 0.5 credit additional are given if taking MGY311Y1 in lieu of BCH311H1/ CSB349H1)

An online introductory survey course that explores the agents of infectious disease including bacteria, viruses, and parasites as well as the host immune response. Other topics include the fundamentals of disease diagnosis and epidemiology. This course will use web-based delivery of lectures and tutorials and utilize a range of communication tools equivalent to approximately three lectures per week. The final exam will require student attendance on the St. George campus.

Prerequisite: BIO120H1, BIO130H1

Breadth Requirements: Living Things and Their Environment (4)

MGY280H1 - Second Year Specialist Research

Hours: 48P/12S

This course gives students enrolled in the Molecular Genetics and Microbiology Specialist or Biochemistry Specialist program an opportunity to conduct an original research project in the second semester of their second year in a research laboratory in either of those Departments. Laboratory assignments are chosen during the first semester of second year by agreement with a Departmental faculty member and the Course Coordinator. Attendance at a weekly meeting is mandatory and students will present a report at the end of term. Details can be found on the departmental website. Not eligible for CR/NCR option.

Prerequisite: Students cannot have completed more than 8.5 credits

Exclusion: MGY299Y1 and other ROP299Y1 courses

Breadth Requirements: Living Things and Their Environment (4)

MGY299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

MGY311Y1 - Molecular Biology

Hours: 72L

This course examines the design and interpretation of experiments that have led to our current understanding of the biological roles of DNA, RNA and proteins. Intended for students considering graduate or professional work in molecular biology or a related field or wanting a deeper understanding of these topics.

Prerequisite: BIO120H1, BIO230H1/ BIO255H1, BCH242Y1 (Note: BCH210H1 may be acceptable with permission of instructor)

Exclusion: BCH311H1, CSB349H1, JBC372H5(UTM), PSL350H1

Breadth Requirements: Living Things and Their Environment (4)

MGY314H1 - Principles of Genetic Analysis I

Hours: 12T/36P

Laboratory experiments in genetics, with the focus on microbial and prokaryotic genetics. Topics and experiments include mutagenesis and genetic selection, linkage and recombination, genetic crosses, gene regulation, suppressor analyses, and genetic mapping. (Lab Materials Fee: \$25; Lab Manual Fee: \$7)

Prerequisite: BIO230H1/ BIO255H1, BIO260H1/ HMB265H1

Exclusion: MGY312H1

Breadth Requirements: Living Things and Their Environment (4)

MGY315H1 - Principles of Genetic Analysis II

Hours: 12T/36P

Laboratory experiments in eukaryotic genetics, using two of the most powerful eukaryotic model systems, the yeast *Saccharomyces cerevisiae* and fruit fly *Drosophila melanogaster*. The course follows MGY314H1; topics include analysis of genetic networks and pathways, meiotic segregation analysis, recombination mapping, genetic crosses, and phenotypic analyses. (Lab Materials Fee: \$25; Lab Manual Fee: \$20)

Prerequisite: BIO230H1/ BIO255H1, BIO260H1/ HMB265H1, MGY314H1/ MGY340H1

Exclusion: MGY312H1

Breadth Requirements: Living Things and Their Environment (4)

MGY340H1 - Molecular Genetics

Hours: 36L

This course gives students an in-depth understanding of how genetics, the study of mutations and their resulting phenotypes, are used to probe and understand a variety of biological phenomena ranging from metabolism, to development, to cancer.

Prerequisite: BIO120H1, BIO130H1, BIO230H1/ BIO255H1, BIO260H1/ HMB265H1

Breadth Requirements: Living Things and Their Environment (4)

MGY350H1 - Model Organisms to Disease

Hours: 36L

The concepts of genetics in the context of human development, disease and evolution. Topics include genetic interactions and complex traits, variation in disease phenotype, signalling and development, stem cells and epigenetic regulation.

Prerequisite: BIO120H1, BIO230H1/ BIO255H1, BIO260H1/ HMB265H1

Corequisite: BCH311H1/ CSB349H1/ MGY311Y1

Breadth Requirements: Living Things and Their Environment (4)

MGY360H1 - Whole-Genome Sequencing and Analysis Laboratory

Hours: 36P

The principles and practice of whole-genome sequencing. Each student team will sequence an entire eukaryotic genome and analyze it. Topics will include: modern sequencing technology, yeast husbandry, genomic library construction and quality control, 'next-generation' sequencing, sequence assembly using a reference genome, principles of genome organization, mutation detection and interpretation.

Prerequisite: BIO230H1/ BIO255H1, BIO260H1/ HMB265H1

Breadth Requirements: Living Things and Their Environment (4)

MGY377H1 - Microbiology I: Bacteria

Hours: 36L

An in depth study of bacteria including their structure, their biology, their ability to adapt, and their effects on human health. Provides a foundation for advanced studies in bacterial physiology, bacterial genetics, molecular pathogenesis of disease, immunology, and environmental studies.

Prerequisite: BCH210H1/ BCH242Y1, BIO120H1, BIO230H1/ BIO255H1

Exclusion: BIO370Y5

Breadth Requirements: Living Things and Their Environment (4)

MGY378H1 - Microbiology II: Viruses

Hours: 36L

Detailed study of viruses in terms of structure, classification, replication and interaction with the host. Basis for advanced study in virology. Requires some familiarity with molecular and cellular biology. A concurrent course in immunology (IMM340H1, IMM350H1) or (IMM341H1, IMM351H1) is recommended.

Prerequisite: BCH210H1/ BCH242Y1; BIO120H1, BIO230H1/ BIO255H1; BIO260H1/ HMB265H1

Corequisite: BCH311H1/ CSB349H1/ MGY311Y1

Exclusion: BIO351Y1, CSB351Y1

Breadth Requirements: Living Things and Their Environment (4)

MGY380H1 - Microbiology Laboratory I: Bacteria

Previous Course Number: MGY379Y1

Hours: 12L/36P

A laboratory course in bacteriology. Students will perform a variety of genetic and biochemical experiments to identify and characterize unknown organisms, and learn how bacteria live together in biofilm and become resistance to antibiotics. Students will also learn important research tools and concepts including CRISPRi, transduction, and conjugation through experiments. Valuable not only for advanced work in microbiology but also in related fields that make use of bacteria and bacteriophages as research tools. (Lab Materials Fee: \$25; Lab Manual Fee: \$20)

Prerequisite: BIO120H1, BIO230H1/ BIO255H1, HMB265H1/ BIO260H1

Corequisite: MGY377H1

Exclusion: MGY379Y1

Breadth Requirements: Living Things and Their Environment (4)

MGY381H1 - Microbiology Laboratory II: Viruses

Previous Course Number: MGY379Y1

Hours: 12L/36P

Hands-on experiments provide the opportunity to develop skills in working safely with human viruses. Important concepts are learned through analysis of results. Topics include propagation and assay of viruses, examination of viruses by electron microscopy, replication kinetics, host response to infection and viral vectors. Valuable not only in microbiology but in fields using viruses as vectors. (Lab Materials Fee: \$25; Lab Manual Fee: \$20)

Prerequisite: BIO120H1, BIO230H1/ BIO255H1, HMB265H1/ BIO260H1, MGY380H1

Corequisite: MGY378H1

Exclusion: MGY379Y1

Breadth Requirements: Living Things and Their Environment (4)

MGY399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities....> Not eligible for CR/NCR option.

MGY420H1 - Regulation of Gene Expression

Hours: 24L

Regulatory mechanisms controlling gene expression in eukaryotes; students will read, discuss, and present the primary research literature in class. Topics include: assembly of the initiation complex; roles of transcription factors, co-activators and cis-acting regulatory elements; promoter escape; mechanisms that control elongation, termination and anti-termination of transcription; chromatin control of transcription.

Prerequisite: BCH311H1/ CSB349H1/ MGY311Y1

Exclusion: BIO477H5 (UTM)

Breadth Requirements: Living Things and Their Environment (4)

MGY425H1 - Signal Transduction and Cell Cycle Regulation

Hours: 24L

This course presents and integrates molecular aspects of signal transduction and cell cycle regulation in eukaryotic cells from yeast to humans. Emphasis is on recent advances in growth factor receptor signalling, modular protein domains, and the recurrent role of protein phosphorylation and protein-protein interactions in cell regulation.

Prerequisite: BCH311H1/ MGY311Y1

Breadth Requirements: Living Things and Their Environment (4)

MGY428H1 - Functional Genomics

Hours: 24L

A broad-ranging course that covers many aspects of genomics and functional genomics, which is the discipline of defining and attributing function to all of the heritable material of an organism on a genome-wide scale, as applied to invertebrates and vertebrates. The primary and review literature will be the basis of all lectures.

Prerequisite: BCH210H1/ BCH242Y1; BIO260H1/ HMB265H1; MGY311Y1/ CSB349H1/ BCH311H1

Breadth Requirements: Living Things and Their Environment (4)

MGY440H1 - Virus-Host Interactions

Hours: 36L

Analysis of virus/host interactions at the molecular level with a view to understanding how viruses cause disease. Course material is based on recent research publications. Topics will be selected from two or three themes that may include virus entry, intracellular trafficking, activation of host cell signaling pathways in response to infection, assembly and release of progeny virus, viral and host determinants of tissue tropism within the host and virus transmission between hosts.

Prerequisite: BCH311H1/ CSB349H1/ MGY311Y1; CSB351Y1/ MGY378H1

Recommended Preparation: IMM340H1/ IMM341H1, IMM350H1/ IMM351H1

Breadth Requirements: Living Things and Their Environment (4)

MGY441H1 - Bioinformatics

Previous Course Number: BCH441H1

Hours: 24L/12T

This course is an introduction to computational methods and internet resources in modern biochemistry and molecular biology. The main topics include: sequence and genome databases, sequence alignment and homology search, use and interpretation of molecular structure, and phylogenetic analysis. Assignments focus on hands-on competence building with web-based bioinformatics tools and databases, downloadable software including a molecular viewer and a multiple sequence alignment editor, and the statistics workbench and programming language "R".

Note: BCB420H1 extends this syllabus to computational topics of systems biology.

Prerequisite: BCH210H1/ BCH242Y1; BCH311H1/ MGY311Y1/ PSL350H1. Students who do not have all of the required prerequisites are encouraged to contact the course coordinator to seek a waiver.

Exclusion: BCH441H1

Breadth Requirements: The Physical and Mathematical Universes (5)

MGY460H1 - Genetic Analysis of Development

Hours: 24L

Basic and advanced principles of genetic analysis applied to the study of the best-understood eukaryotic model organisms including the nematode worm *Caenorhabditis elegans*, the zebrafish, and the laboratory mouse. We emphasize the use of genetic approaches to address problems in cell biology and development, such as the regulation of cell fate and tissue development. Much of the knowledge gained from these experimentally tractable organisms has proven broadly applicable, and the same principles of developmental genetic analysis underlie efforts to understand the development of humans.

Prerequisite: BIO260H1/ HMB265H1, MGY311Y1/ CSB349H1/ BCH311H1

Exclusion: MGY451H1, MGY452H1

Recommended Preparation: MGY340H1, MGY350H1

Breadth Requirements: Living Things and Their Environment (4)

MGY470H1 - Human and Molecular Genetics

Hours: 24L

Current aspects of human and molecular genetics including: chromosome structure and function, inheritance of mutations and disease, the human genome and disease gene mapping, cancer genetics, mouse disease models and gene based diagnostics and therapies.

Prerequisite: BCH311H1/ MGY311Y1 (Note: CSB349H1 is acceptable with permission of the instructor)

Breadth Requirements: Living Things and Their Environment (4)

MGY480Y1 - Special Research Project

An opportunity for specialized individual research in molecular genetics and microbiology by arrangement with the course coordinator. Students are required to perform an original research project and attend relevant research seminars. Not eligible for CR/NCR option.

Prerequisite: (MGY314H1/ MGY315H1/ MGY379Y1/ MGY380H1/ MGY381H1), (MGY311Y1/ BCH311H1/ CSB349H1)

Breadth Requirements: Living Things and Their Environment (4)

MIJ485H1 - Vaccines and Immunity

Hours: 36L

Analysis of the strategies used by pathogenic microbes to evade specific and innate immune responses, and the strategies used to combat infectious disease using vaccines, with an emphasis on molecular and immunological aspects. Special topics include: molecular basis of pathogenicity and immune-evasion strategies; vaccination strategies; challenges to vaccine implementation (given jointly by the Departments of Molecular Genetics and Immunology).

Prerequisite: (IMM340H1/ IMM341H1), (IMM350H1/ IMM351H1), MGY377H1, MGY378H1

Exclusion: MBY480H1, MGY485H1

Breadth Requirements: Living Things and Their Environment (4)

Munk One

Faculty List

Professor

J. Wong, MA, PhD

Introduction

Munk One at the Munk School of Global Affairs & Public Policy is an interdisciplinary academic program in global affairs for first-year students. It offers students the opportunity to deepen their understanding of global justice, innovations for global solutions, and social and economic inequality. Participating in Munk One ignites intellectual curiosity, elevates knowledge of world affairs, and connects first-year students to the Munk School community.

Munk One is an application-based, selective academic program that consists of four half-credit courses (2.0 credits in total) and is limited to an enrollment of 25 students. Students must submit an [online application](#) with a resumé and supplementary application material immediately after gaining admission to the University of Toronto. Newly admitted students in the Faculty of Arts & Science (St. George campus) are eligible for admission. Students who demonstrate strong intellectual vitality, commitment to public service, and integrity are encouraged to apply. We welcome students from diverse backgrounds, experiences, and academic interests.

Students enrolled in Munk One belong to a vibrant, dynamic, and diverse community of Munk undergraduates as well as graduate students in the Munk School's two professional graduate programs. Courses in Munk One are taught by top scholars and award-winning faculty. Munk One students engage with distinguished Munk Fellows such as current and former Canadian ambassadors, members of the federal and provincial public service, private sector innovators, influential journalists, and global affairs and public policy leaders from around the world. Students are encouraged to participate in the vast array of academic and professional opportunities offered at the Munk School, such as conferences, symposia, seminars, co-curricular activities, and faculty-led research projects. Munk One students are mentored by Munk One alumni and also engage in academic programming typically offered only to graduate students, such as a case competition.

The objective of the Munk One's Global Justice stream is to orient students to issues of socioeconomic divisions, poverty, geopolitical complexities, global security, human rights, and sustainable development. The courses are

curated and sequenced to build students' academic skills and knowledge of topics related to global justice. Each of the four courses are delivered as small group seminars with guided discussion and scholarly activities moderated by Munk faculty. The program also features experiential learning and opportunities for beyond-the-classroom study.

In the first semester, students enroll in two complementary courses which build the theoretical foundation necessary to understand and analyze issues of global justice.

MUN100H1: *Global Innovation* explores innovation's role as a key driver of economic growth, population health, and societal success. Using contemporary and historical cases from across the globe, this course asks: When does innovation occur? How do we recognize moments of innovation? Who benefits from innovation? How can we foster equitable innovation?

In MUN110H1: *Peace, Conflict and Justice in the Indo-Pacific*, students focus on a specific region and explore issues in that area related to sustainable development, geopolitical conflicts, social inequality, and regional stability. Students also propose policy pathways designed to promote sustainable prosperity in the Indo-Pacific.

In the second semester, students apply the knowledge and tools gained in the first semester to specific challenges.

In MUN130H1: *Climate, Energy, and Power*, students explore the relationship between energy practices and social and economic power. This class considers the inequality caused by climate change, emergent energy technologies, and the institutional and regulatory conditions that shape national, regional, and international environmental policies.

MUN140H1: *Design for Social Change and Inclusion* is Munk One's capstone course. In this hands-on, experiential learning class, students tackle real-world problems in partnership with an organization working on global challenges.

Courses in the Munk One Global Justice stream are particularly relevant for students who are interested in pursuing further studies in the areas of Peace, Conflict, and Justice. Munk One also serves as a gateway to other undergraduate courses offered at the Munk School, such as Public Policy and Governance, Contemporary Asian Studies at the Asian Institute, Centre for European and Eurasian Studies, and the Centre for the Study of the United States. It may also interest students who wish to pursue studies in International Relations, Political Science, and other disciplines with a focus on international affairs.

Program Director: Professor Rie Kijima,
rie.kijima@utoronto.ca

Program and Events Coordinator: Simone DeFacendis,
munk.one@utoronto.ca or 416-946-0326

Munk One Courses

MUN100H1 - Global Innovation

Previous Course Number: MUN101H1
Hours: 24S

Innovation has always been a key driver of economic growth, population health, and societal success. Transformative change has historically been linked to major innovations such as urban sanitation, pasteurization, the printing press and the industrial revolution. Currently, the opportunity to enhance life chances worldwide relies on innovating for the poor, social innovation, and the ability to harness scientific and technological knowledge. What precisely is innovation? When does innovation happen? Who benefits from innovation? How can innovation be fostered, and how do innovations spread? Relying on major global transformations and country-specific case studies (for example, South Korea, Taiwan, Israel and India), this course examines the drivers of innovation, the political, social, economic, and scientific and technological factors that are critical to promoting innovation and addressing current global challenges, and the consequences of innovation. Restricted to first-year students admitted to Munk One. Not eligible for CR/NCR option.

Prerequisite: Admission to Munk One
Breadth Requirements: Society and its Institutions (3)

MUN110H1 - Peace, Conflict and Justice in the Indo-Pacific

Hours: 24S

In recent years, countries including Canada, India, Japan, and the United States have devised Indo-Pacific strategies in recognition of the rising importance of the region. The region now accounts for half of the world's people, 60 percent of world's GDP, and two-thirds of global economic growth. Devising effective solutions for the policy challenges related to the Indo-Pacific will be crucial to prevent catastrophic conflict and promote sustainable prosperity in the 21st century. In this class, students will examine the nature of policy problems with a global scope - in areas such as the management of

Regarding Munk One Courses

Munk One students intending to pursue Peace, Conflict and Justice, Contemporary Asian Studies, and Public Policy programs (undergraduate programs run through the Munk School of Global Affairs & Public Policy), are also eligible to count some of their Munk One coursework toward their degree requirements.

geopolitical conflict, economic security, and human rights and transnational justice - and devise solutions tailored to emerging challenges in the Indo-Pacific. Restricted to first-year students admitted to Munk One. Not eligible for CR/NCR option.

Prerequisite: Admission to Munk One
Breadth Requirements: Society and its Institutions (3)

MUN130H1 - Climate, Energy, and Power

Hours: 24S

Energy is at the crux of a range of pressing global issues, including climate change and the existential threat it poses across the world. This class uses energy – sometimes as a focal point, sometimes as an entry point – to examine a range of issues including inequality, emergent technologies and policy making in a global context. Restricted to first-year students admitted to Munk One. Not eligible for CR/NCR option.

Prerequisite: Admission to Munk One
Breadth Requirements: Society and its Institutions (3)

MUN140H1 - Design for Social Change and Inclusion

Hours: 24S

Framed around a design challenge, in this class students work in teams to come up with an innovative, equity-focused approach to a global problem. To this end, the course includes modules on topics such as: collecting primary data (via interviews and/or focus groups); conducting secondary research; identifying beneficiaries' needs; developing a mindset for social innovation; assessing feasibility and viability; and how to develop culturally responsive and relevant propositions. Restricted to first-year students admitted to Munk One. Not eligible for CR/NCR option.

Prerequisite: Admission to Munk One
Breadth Requirements: Society and its Institutions (3)

Munk School of Global Affairs and Public Policy

Munk School of Global Affairs and Public Policy Courses

MUN120H1 - Revolutions

Hours: 24L/8T

This course transcends time and place to delve into the overarching dynamics of revolution. This exploration of revolutions goes beyond simple chronology to uncover common threads that unite these transformative events. From the spirit that ignited the English Revolution to the fervor of the American Revolution, the course navigates through the social and political forces that reshaped societies. Students will dissect the emergence of radical change, tracing its evolution from the French Revolution to the Revolutions of 1848 and the birth of modern political ideologies. The course then navigates through the 20th century, from the Russian and Chinese Revolutions to the Cuban Revolution and the intricate web of Latin American revolutionary movements. Comparative analysis delves into the universal and unique aspects of these revolutions, offering students an understanding of the power and influence of these transformative moments.

Breadth Requirements: Thought, Belief and Behaviour (2)

MUN195H1 - The Economics of Birth, Death and Everything in Between

Hours: 24L

Does welfare really encourage people to have more kids? How do contraception bans affect women's work? Do new immigrants create competition that makes wages drop? Economic demography – applying economic analysis to the study of populations – can help us understand all these questions and more. Among other topics, this class will examine how pension systems, health care, immigration policy and economic growth, marriage and divorce laws and women's labor force participation relate to public policy.

Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)
Course Experience: University-Based Experience

MUN196H1 - Somebody's Watching Me: The Global Politics of Surveillance

Hours: 24L

From security cameras and cell phones, to drones and social media, our data are collected in countless ways. But who controls our data? Do we have a right to privacy? Does mass surveillance make us safer?

This course invites students to explore the global politics of mass surveillance, and the role played by states, big tech, police, activists, and ordinary people. Through in-class discussion and analytical writing assignments, students will engage with surveillance studies through many dimensions, including public policy, human rights, international relations, economics, technological development, and race, class, and gender.

Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)
Course Experience: University-Based Experience

MUN197H1 - Strong States or Weak Parties?

Hours: 24L

This course will introduce the study of Europe by exploring the political history of European authoritarianism, and resistance to it, from the 1930s right up to the present day. The accent will be on the present: we will seek to explain the growing appeal of populist authoritarianism seven decades after World War II, the Holocaust, and the defeat of German Nazism and Italian fascism. Are current politics in Europe a matter of back to the future? Or is there something new? Is there one authoritarianism in Europe or multiple?

Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)
Course Experience: University-Based Experience

MUN198H1 - Digital Technologies and Human Rights

Hours: 24L

What are digital technologies, exactly? How do we govern them? Do they threaten or protect human rights? In this course, we'll look at the Internet, advanced computing, 'Big Data' analytics, and artificial intelligence – the technologies which form the basis of everything from facial recognition software to home appliances to social media. We'll consider how to govern and use these technologies, and the consequences of those choices for global human rights. Evaluation is based on essays, a presentation, and class participation. There is no exam.

Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)
Course Experience: University-Based Experience

MUN200H1 - Understanding Global Controversies

Hours: 24L/12T

This course provides students from different programs with a forum to discuss and engage with major global issues within the framework of thematic and regional studies and with comparative and multidisciplinary perspectives. Because this course will be team-taught by Munk faculty from the Humanities and Social Sciences, it will provide students with an introduction to interdisciplinary studies. The course envisions examining several topics which will be based on current global controversies including climate change, sustainability, inequality, democracy, migration and conflict.

This course is restricted to second-year students who have either completed MUN105Y1 or enrolled in one of the following programs: American Studies Major; American Studies Minor; Contemporary Asian Studies Major; Contemporary Asian Studies Minor; European Affairs Major (formerly European Studies Major); European Affairs Minor (formerly European Union Studies Minor); Peace, Conflict and Justice Major; Peace, Conflict and Justice Specialist; Major in Public Policy; South Asian Studies Minor.

Prerequisite: MUN105Y1 or enrolled in at least one of the following programs: American Studies Major (ASMAJ0135); American Studies Minor (ASMIN0135); Contemporary Asian Studies Major (ASMAJ0235);

Contemporary Asian Studies Minor (ASMIN0235); European Affairs Major (formerly European Studies Major) [ASMAJ1626 (formerly ASMAJ1625)]; European Affairs Minor (formerly European Union Studies Minor) [ASMIN1626 (formerly ASMIN1011)]; Peace, Conflict and Justice Major (ASMAJ1228); Peace, Conflict and Justice Specialist (ASSPE1228); Major in Public Policy (ASMAJ2660); South Asian Studies Minor (ASMIN1333)
Breadth Requirements: Society and its Institutions (3)

MUN310H1 - Independent Study in Global Affairs & Public Policy

This course is an independent research project on a global affairs or public policy topic. Students must find a faculty supervisor appointed at the Munk School, submit a proposal, and receive approval for the project. Contact hours with the supervisor may vary, but typically comprise one hour per week.

To enrol, please contact the Munk School Undergraduate Program Director at UndergraduateDirector.munkschool@utoronto.ca to request an application form, which should be filled out in consultation with the faculty supervisor and include a detailed description of the course topic, reading list, and assignments/marking scheme, at least three weeks before the start of term.

Prerequisite: MUN105Y1/ MUN200H1, or enrolled in at least one of the following programs: American Studies Major (ASMAJ0135); American Studies Minor (ASMIN0135); Contemporary Asian Studies Major (ASMAJ0235); Contemporary Asian Studies Minor (ASMIN0235); European Affairs Major (formerly European Studies Major) [ASMAJ1626 (formerly ASMAJ1625)]; European Affairs Minor (formerly European Union Studies Minor) [ASMIN1626 (formerly ASMIN1011)]; Peace, Conflict and Justice Major (ASMAJ1228); Peace, Conflict and Justice Specialist (ASSPE1228); Major in Public Policy (ASMAJ2660); South Asian Studies Minor (ASMIN1333).

Breadth Requirements: Society and its Institutions (3)
Course Experience: University-Based Experience

Music

Faculty List

Faculty: Music History & Culture

Professors

R. Elliott, MA, PhD (M)
J. Haines, MA, PhD (T)
E. Hisama, BA, BMus, PhD

Associate Professors

S. Gutsche-Miller, MA, PhD
F. Hemmasi, MA, PhD
S. Lee, MA, PhD
E. Lockhart, PhD
J. Packman, MA, PhD
J. Pilzer, MA, PhD

Assistant Professors

C. Sumner, MA, PhD

Faculty: Music Theory

Professors

E. Hisama, BA, BMus, PhD
R. McClelland, PhD

Associate Professor

D. Tan, PhD
S. Vande Moortele, MA, PhD

Associate Professors, Teaching Stream

M. Sallmen, MA, PhD
A. Vishio, PhD

Lecturer

L. Kuzmenko, Mus Bac

The courses with the prefix MUS are open to any student of the University. Even students with a strong music background should find them stimulating explorations of the world of music.

Students wishing to enter the Specialist or Major Program should examine the courses listed under HMU History of Music and TMU Theory of Music in the Faculty of Music Calendar. First-year specialist/major courses are available to a small number of students, who are admitted to them by audition and interview during Registration week. Those interested in ethnomusicology and the study of world music may audition on the basis of their comparable accomplishments in a non-Western instrumental or vocal performing tradition. All students are required to have completed Level 8 Theory and Level 9 Harmony from the Royal Conservatory of Music or equivalent as prerequisite, prior to the audition-interview. Knowledge of Western music history and theory ensures that students are not disadvantaged when facing the curricular requirements of the program. In this program the humanistic and historical approach is supported by courses in music theory which provide craft and analytical tools. The Specialist Program provides excellent preparation for a variety of professional activities including music criticism, library science, positions in the publishing, broadcasting, and recording industries, as well as for graduate studies in musicology, ethnomusicology, and music theory, leading to careers in university teaching. The program leads to the degree of Bachelor of Arts (honours). For programs leading to the degree of Bachelor of Music, the student should consult the Calendar of the Faculty of Music.

Students are encouraged to attend events sponsored by the Faculty of Music such as the Thursday Noon and Faculty Artists' Series, opera productions and numerous concerts. For information refer to www.music.utoronto.ca or telephone 416-978-3740. Faculty of Music Representative: Professor R. McClelland, Associate Dean, Edward Johnson Building, Room 256 (416-946-0802); email: ryan.mcclelland@utoronto.ca Enquiries: Jennifer Panasiuk, Admissions Officer, Edward Johnson Building, Room 145 (416-978-3741); email: undergrad.music@utoronto.ca

Introduction

In the Faculty of Arts and Science, Music is approached as one of the liberal arts and taught as cultural history. This humanistic emphasis aims at a high degree of correlation with other disciplines such as Fine Art, Cultural Anthropology, Languages and Literatures, History, and Philosophy. Note that unlike students in the Mus.Bac. program at the Faculty of Music, students in the Specialist and Major programs are not given individual applied music instruction (e.g., piano or voice lessons). They are, however, offered a thorough grounding in musicology, and strong training in both ethnomusicology and music theory, with the option of increasing their exposure to the latter two disciplines via their upper-year option courses.

Regarding Music Programs

Enrolment in HMU and TMU courses, and, therefore, in the Specialist and Major programs, is limited to students who pass the audition-interview, held annually in August. Students are required to complete and submit the Student Profile available at www.music.utoronto.ca under "Music for Arts & Science Students", prior to August 1st. Auditions will be completed via video recordings, with interviews completed virtually over Zoom. Interviews will be assigned, after the Music Major/Specialist Student Profile and audition recordings have been received.

Detailed information is available on the Faculty of Music website. Prospective candidates must perform at the Royal Conservatory of Music Grade Eight level, and demonstrate that they have RCM Level 8 Theory (formerly Advanced Rudiments) and RCM Level 9 Harmony (formerly Basic Harmony) or equivalents. Students interested in pursuing the Major or Specialist with the Ensemble option are required to pass an additional audition-interview for ensemble placement. Please refer to [MUS120Y1](#). (Note: No audition is required for the Music Minor program, see below.)

Music Programs

Music Specialist (Arts Program) - ASSPE2276

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Special Requirement

- Students must pass an audition-interview to enroll in the program. The audition is held annually in August. Students are required to complete and submit the Student Profile available on-line, prior to August 1st. Detailed information is available on the [Faculty of Music](#) website.
- Prospective candidates must perform at the Royal Conservatory of Music Grade Eight level, and demonstrate that they have RCM Level 8 Theory (or equivalent) and RCM Level 9 Harmony (or equivalent). Students who do not meet the Level 9 Harmony requirement (or equivalent) will be required to attend an additional hour of tutorial during the fall term of [TMU140Y1](#).

Completion Requirements:

(10 credits)

First Year:

[HMU111H1](#), [HMU126H1](#), [TMU115H1](#), [TMU140Y1](#) (2.5 credits)

Higher Years:

1. [HMU225H1](#), [HMU340H1](#) or [HMU345H1](#), [TMU240Y1](#) (2.0 credits)
2. 3.0 credits from: [HMU425H1](#), [HMU426H1](#), [HMU430H1](#), [HMU431H1](#), [HMU432H1](#), [HMU433H1](#), [HMU435H1](#), [HMU450H1](#)
3. 1.5 credits in music history (HMU) or music theory (TMU) with at least 1.0 credit at the 300-level

4. 1.0 credits at the 100-level or above in a language other than English

Music Specialist with Ensemble Option (Arts Program) - ASSPE2027

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Special Requirement

- Students must pass an audition-interview to enroll in the program. The audition is held annually in August. Students are required to complete and submit the Student Profile available on-line, prior to August 1st. Detailed information is available on the [Faculty of Music](#) website.
- Prospective candidates must perform at the Royal Conservatory of Music Grade Eight level, and demonstrate that they have RCM Level 8 Theory (or equivalent) and RCM Level 9 Harmony (or equivalent). Students who do not meet the Level 9 Harmony requirement (or equivalent) will be required to attend an additional hour of tutorial during the fall term of [TMU140Y1](#).
- Students interested in pursuing the Major or Specialist with the Ensemble option are required to pass an additional audition-interview for ensemble placement. Please refer to [MUS120Y1](#). An information sheet is available at the Faculty of Music and online at <http://www.music.utoronto.ca/> under "Music for Arts & Science Students"

Completion Requirements:

(11.5 full courses or equivalent)

First Year:

[HMU111H1](#), [HMU126H1](#), [MUS120Y1](#), [TMU115H1](#), [TMU140Y1](#) (3.5 credits)

Higher Years:

1. [HMU225H1](#), [HMU340H1](#) or [HMU345H1](#), [TMU240Y1](#) (2.0 credits)
2. [MUS220Y1](#) (1.0 credits)
3. 3.0 credits from: [HMU425H1](#), [HMU426H1](#), [HMU430H1](#), [HMU431H1](#), [HMU432H1](#), [HMU433H1](#), [HMU435H1](#)
4. 1.0 credit in music history (HMU) or music theory (TMU) at the 300+ level
5. 1.0 credit at the 100-level or above in a language other than English

Music Major (Arts Program) - ASMAJ2276

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Special Requirement

- Students must pass an audition-interview to enroll in the program. The audition is held annually in August. Students are required to complete and submit the Student Profile available on-line, prior to August 1st. Detailed information is available on the [Faculty of Music](#) website.
- Prospective candidates must perform at the Royal Conservatory of Music Grade Eight level, and demonstrate that they have RCM Level 8 Theory (or equivalent) and RCM Level 9 Harmony (or equivalent). Students who do not meet the Level 9 Harmony requirement (or equivalent) will be required to attend an additional hour of tutorial during the fall term of [TMU140Y1](#).

Completion Requirements:

(7 credits)

First Year:

[HMU111H1](#), [HMU126H1](#), [TMU115H1](#), [TMU140Y1](#) (2.5 credits)

Higher Years:

1. [HMU225H1](#), [TMU240Y1](#) (1.5 credits)
2. 2.0 credits in music history (HMU), including at least one half-course at the 300+ level and one half-course at the 400-level
3. 1.0 credit at the 300+ level in music history (HMU) or music theory (TMU)

Music Major with Ensemble Option (Arts Program) - ASMAJ2027

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Special Requirement

- Students must pass an audition-interview to enroll in the program. The audition is held annually in August. Students are required to complete and submit the Student Profile available on-line, prior to August 1st. Detailed information is available on the [Faculty of Music](#) website.
- Prospective candidates must perform at the Royal Conservatory of Music Grade Eight level, and demonstrate that they have RCM Level 8 Theory (or equivalent) and RCM Level 9 Harmony (or equivalent). Students who do not meet the Level 9 Harmony requirement (or equivalent) will be required to attend an additional hour of tutorial during the fall term of [TMU140Y1](#).
- Students interested in pursuing the Major or Specialist with the Ensemble option are required to pass an additional audition-interview for ensemble placement. Please refer to [MUS120Y1](#). An information sheet is available at the Faculty of Music and online at <http://www.music.utoronto.ca/> under "Music for Arts & Science Students"

Completion Requirements:

(8 credits)

First Year:

[HMU111H1](#), [HMU126H1](#), [MUS120Y1](#), [TMU115H1](#), [TMU140Y1](#) (3.5 credits)

Higher Years:

1. [HMU225H1](#), [TMU240Y1](#) (1.5 credits)
2. [MUS220Y1](#) (1.0 credit)
3. 1.0 credit in music history (HMU) at the 300+ level, including at least one half-course at the 400-level
4. 1.0 credit at the 300+ level in music history (HMU) or music theory (TMU)

Music History & Culture Minor (Arts Program) - ASMIN0695

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4 full courses or equivalent)

1. [MUS110H1](#), [MUS111H1](#)
2. [MUS200H1](#) or an alternative 200-level 0.5 credit in world music ([MUS209H1](#), [MUS211H1](#), [MUS212H1](#), or [MUS215H1](#))
3. 2.5 credits in MUS courses from the list below, including one credit at the 300+ level. Either [MUS120Y1](#) or [MUS220Y1](#) can be counted towards the 2.5 credits in MUS courses

offered annually. Full details on these, and other HMU/TMU courses may be found in the [Calendar of the Faculty of Music](#).

HMU111H1, TMU115H1, and TMU140Y1, for the purposes of an Arts & Science degree, are considered category 1 (Creative and Cultural Representations) for breadth requirements, and are considered as Humanities courses for distribution requirements.

Prerequisite: RCM Level 8 Theory, RCM Level 9 Harmony, RCM Grade 8 level performing audition, and permission of Department.

Corequisite: [HMU111H1](#) and [TMU140Y1](#).

Recommended Preparation: This course is offered simultaneously with [TMU132H1](#) (F) and [TMU133H1](#) (S) at the Faculty of Music.

MUS120Y1 - Vocal and Instrumental Ensembles I

Hours: 144P

Students rehearse and perform in concerts and reading sessions as assigned by the Faculty of Music. Provides experience in choral groups, orchestra, or in concert band and large wind groups of diverse instrumentation. Development of musicianship skills through performance of large ensemble works; emphasis on sight-reading, ear-training, and musical knowledge.

Attendance at all sessions is required. Placement audition and permission of the Department required.

Download the excerpt that is relevant to the instrument you would like to audition on; excerpts will be available at www.music.utoronto.ca beginning early July.

Exclusion: MUS291Y1

Breadth Requirements: Creative and Cultural Representations (1)

HMU126H1 - Historical Survey II

Western music from 1750 to the present.

Exclusion: [HMU226H1](#). Does not count as an HMU elective.

TMU140Y1 - Music Theory I & II

Diatonic harmony, including principles of voice leading and harmonic progression. Chromatic harmony, including modulation, mixture, Neapolitan and augmented sixths.

Regarding Music Courses

HMU and TMU Courses

HMU111H1, TMU115H1, and TMU140Y1 are Prerequisites for all other HMU/TMU courses which are

Music Courses

MUS110H1 - Introduction to Music History and Culture

Hours: 24L

Introduction to form, style and the interrelationship of music and culture. A basic ability to read music is required.

Exclusion: [HMU111H1](#), [VPMA80H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

MUS111H1 - Historical Survey of Western Music

Historical survey of Western art music from the Middle Ages to the present. A basic ability to read music is required.

Exclusion: [HMU111H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

HMU111H1 - Introduction to Music and Society

An examination of musical thought and practice in non-Western and Western traditions.

Exclusion: Does not count as an HMU elective.

TMU115H1 - Musical Skills I & II

Reading and listening skills for diatonic and chromatic materials. Topics include sight singing, rhythm reading, keyboard harmony, and dictation.

Course requirements include part-writing, analysis, and keyboard harmony/skills.

Prerequisite: RCM Level 8 Theory, RCM Level 9 Harmony, RCM Grade 8 level performing audition and permission of Department.

Corequisite: HMU111H1 and TMU115H1

Recommended Preparation: This course is offered simultaneously with TMU130H1 (F), TMU131H1 (S) and TMU105Y/107Y1 at the Faculty of Music.

MUS200H1 - Music of the World's Peoples

Hours: 24L

A survey of musical traditions from various regions of the world, with particular emphasis on the sociocultural contexts in which those musics are created and appreciated. No prior background in music or ability to read music is required.

Exclusion: HMU111H1, VPMMA99H3

Breadth Requirements: Creative and Cultural Representations (1)

MUS202H1 - Beethoven

Hours: 24L

A study of Beethoven's musical style in historical context, including a non-technical consideration of Beethoven's innovations based on listening to music and reading history. No prior background in music or ability to read music is required.

Exclusion: HMU111H1, VPMC85H3

Breadth Requirements: Creative and Cultural Representations (1)

MUS204H1 - The Age of Bach & Handel

Hours: 24L

A study of the representative major works in their social and cultural setting with emphasis on the high baroque style of Bach and Handel. No prior background in music or the ability to read music is required.

Exclusion: HMU111H1

Breadth Requirements: Creative and Cultural Representations (1)

MUS206H1 - The World of Opera

Hours: 24L

Examination of selected operas from the eighteenth to the early twentieth century. Musical and dramatic styles will be considered in their cultural context. The ability to read music is not required.

Exclusion: HMU111H1

Breadth Requirements: Creative and Cultural Representations (1)

MUS207H1 - Music for Orchestra

Hours: 24L

Study of selected orchestral works from 1700 to the present. No prior background in music or ability to read music is required.

Exclusion: HMU111H1

Breadth Requirements: Creative and Cultural Representations (1)

MUS209H1 - Performing Arts of South Asia

Hours: 24L

Survey of classical, devotional, folk and popular musics and dances from the Indian subcontinent and their toll in the sociocultural life of the region. No prior background in music or ability to read music is required.

Exclusion: HMU111H1

Breadth Requirements: Creative and Cultural Representations (1)

MUS210H1 - Music in Film

Hours: 24L

This course introduces students to the history and theory of music in film, beginning in the so-called silent era and ending in recent years. Students will become familiar with basic film music concepts and be able to identify the main ways in which music works in the movies.

Breadth Requirements: Creative and Cultural Representations (1)

MUS211H1 - The World of Popular Music

Hours: 24L

A survey of popular music traditions from various regions of the world with particular emphasis on the sociocultural contexts in which those musics are created and appreciated. Explores the role of the recording industry, media, festivals, and local institutions in shaping these music cultures both at home and in the international arena. No prior background in music or ability to read music is required.

Exclusion: HMU111H1

Breadth Requirements: Creative and Cultural Representations (1)

MUS212H1 - Music, Sound & Power in the Middle East

Hours: 24L

An investigation of the social life of classical, devotional, folk and popular music and dance from across the Middle East, North Africa and Central Asia.

Breadth Requirements: Creative and Cultural Representations (1)

MUS215H1 - Performing Arts of East Asia

Hours: 24L

An investigation of the social life of classical, devotional, theatrical, folk, and popular music and dance across East Asia.

Breadth Requirements: Creative and Cultural Representations (1)

MUS220Y1 - Vocal and Instrumental Ensembles II

Hours: 144P

Students rehearse and perform in concerts and reading sessions as assigned by the Faculty of Music. Provides experience in choral groups, orchestra, or in concert band and large wind groups of diverse instrumentation. Development of musicianship skills through performance

of large ensemble works; emphasis on sight-reading, ear-training, and musical knowledge.

Attendance at all sessions is required. Placement audition and permission of the Department required.

Download the excerpt that is relevant to the instrument you would like to audition on; excerpts will be available at www.music.utoronto.ca beginning early July.

Prerequisite: MUS120Y1. Placement audition and permission of the Department required.

Breadth Requirements: Creative and Cultural Representations (1)

HMU225H1 - Historical Survey I

Western music up to 1750.

Prerequisite: In Year 2.

Exclusion: Does not count as an HMU elective.

MUS225H1 - Music: Islamic World

Hours: 24L

A survey of the musical systems of Muslim societies from North Africa to Southeast Asia, with special focus on the broader cultural contexts in which they are created, used, and appreciated. No prior background in music or ability to read music is required.

Exclusion: HMU111H1

Breadth Requirements: Creative and Cultural Representations (1)

MUS230H1 - Music of the 1960s

Hours: 24L

Examination of musical and cultural aspects of the decade, with emphasis on North America. No prior background in music or ability to read music is required.

Exclusion: HMU111H1

Breadth Requirements: Creative and Cultural Representations (1)

MUS235H1 - Survivors' Music

Hours: 24L

Investigating music's myriad roles in the lives of survivors of violence and traumatic experience, for example, in health and recovery, witnessing, and advocacy—and the hidden histories these musics reveal. We encounter survivors of the Holocaust, Hiroshima, the Japanese "comfort women" system, and quotidian domestic and sexual violence.

Exclusion: HMU111H1

Breadth Requirements: Creative and Cultural Representations (1)

MUS240H1 - Heavy Music

An investigation of different world genres of "heavy music" as creations of sounding figures of social order, practices of destruction, practices of personal and collective power, social critique, parody, and so on. Includes obvious suspects—metal, punk, gangsta rap—but also opera, military musics, ritual musics, and others.

Exclusion: HMU111H1

Breadth Requirements: Creative and Cultural Representations (1)

TMU240Y1 - Music Theory and Skills III & IV

The first semester focuses on the study of forms and analysis of repertoire from c.1700-c.1900; forms to be studied include binary, ternary, sonata, rondo, variation, and fugue. The second semester focuses on post-tonal theory and analysis of music post-1900 along with reading and listening skills suitable for understanding post-tonal music.

Prerequisite: TMU115H1, TMU140Y1

Exclusion: TMU230H1, TMU231H1, TMU232H1

MUS300H1 - Music, Media and Technology

Hours: 24L

This course explores some of the ways in which music has been shaped through history, and particularly during the last 100 years, by technology and the media. Special attention will be paid to the record industry, broadcasting, and cinema. Examples from popular and art music traditions of the world will be used to illustrate the symbolic relationship between music and media. No prior background in music or ability to read music is required.

Exclusion: HMU111H1

Breadth Requirements: Creative and Cultural Representations (1)

MUS301H1 - African Popular Music

Hours: 24L

A survey of popular music in Sub-Saharan Africa from the 1920s to today. Students will listen to and think critically about a range of musical genres in their historical and social contexts. Case studies include Ghanaian highlife, Congolese rumba, Ethiopian jazz, South African kwaito, and Nigerian afrobeat(s). In our exploration of popular genres, we will engage topics of colonialism, nationalism, ethnicity, aesthetics, commodification, and appropriation, among others. No prior background in music is required.

Breadth Requirements: Creative and Cultural Representations (1)

MUS302H1 - Symphony

Hours: 24L

Masterpieces in the symphonic genre from the eighteenth to the twentieth centuries. No prior background in music or ability to read music is required.

Exclusion: HMU111H1

Breadth Requirements: Creative and Cultural Representations (1)

MUS303H1 - Music in the Contemporary World

Hours: 24L

The modern musical repertoire, including popular and traditional music from various parts of the world, will be studied from a variety of theoretical perspectives. No prior background in music or ability to read music is required.

Exclusion: HMU111H1

Breadth Requirements: Creative and Cultural Representations (1)

MUS305H1 - Latin American and Caribbean Music

Hours: 24L

A survey of popular, folk, and religious music from Latin America and the Caribbean. Each practice will be considered in its socio-cultural context with attention to the histories and discourses of racial and cultural mixing that deeply inform everyday life in nation-states including Peru, Brazil, Haiti, and Jamaica among others.

Exclusion: [HMU111H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

MUS306H1 - Popular Music in North America

Hours: 24L

A selected survey of North American popular music from the 1930s through present. Students will develop a critical framework for listening to and analyzing popular music in historical and social context by focusing on aspects of performance, representation, composition, mass media, aesthetics, and commodification. No prior background in music or ability to read music is required.

Exclusion: [HMU111H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

MUS308H1 - Handel

Hours: 24L

Handel's life and music will be examined in its cultural contexts.

Exclusion: [HMU111H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

MUS315H1 - North American Vernacular Music

Hours: 24L

Explores vernacular music in North America, considering how musical performances and festivals of vernacular music map local, regional, and ethnic identities in North America. Specific case studies will include Scottish Highland, Tejano Conjunto, Métis Fiddling, Powwow, and Zydeco. No prior background in music or ability to read music is required.

Exclusion: [HMU111H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

MUS321H1 - The Beatles

Hours: 24L

In The Ultimate Encyclopedia Of Rock, it was written of the The Beatles that "From three-minute pop classics to the psychedelic extravaganza of 'Sgt. Pepper', their songs soundtracked the Sixties. They were the greatest group in history. They probably always will be". In addition to a survey of the group's history, their recordings, and their films, this course aims to answer two basic questions: (1) what made the songs of The Beatles so successful? (2) in what ways did the band's artistic output "soundtrack" the 1960s? No prior background in music or ability to read music is required.

Exclusion: [HMU111H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

MUS325H1 - The Age of Haydn & Mozart

Hours: 24L

Selected works from the second half of the eighteenth century by Haydn, Mozart, and their contemporaries will be examined in cultural and historical context. No prior background in music or ability to read music is required.

Exclusion: [HMU111H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

MUS330H1 - Music, Violence, and War

Hours: 24L

An inquiry into the social life of music in situations of violence, war, social domination, and traumatic experience. Case studies include music and African-American slavery, the First World War, Nazi Germany and the Holocaust, the Asia-Pacific War, Khmer Rouge Cambodia, the Iraq Wars and others.

Breadth Requirements: Creative and Cultural Representations (1)

MUS335H1 - A Social History of the Piano

Hours: 24L

A survey of the changing roles and gendered associations of the piano c.1700 to the present day. Examples from the western art music tradition are compared to the acculturating force of the piano in other cultures, representations in the visual arts and film, and contemporary contexts of piano performance.

Exclusion: VPMB76

Breadth Requirements: Creative and Cultural Representations (1)

HMU340H1 - Music in North America

Study of music in North American life. Topics may include folk and popular music, jazz and art music.

Prerequisite: HMU111H1, HMU126H1, HMU225H1/
JMU210H1

MUS340H1 - 20th Century Music for Theatre

Hours: 24L

An examination of the role that music has played in modern Western theatre, with specific case studies drawn from one or more of the following genres: ballet, modern dance, musical theatre, opera, spoken theatre.

Breadth Requirements: Creative and Cultural Representations (1)

HMU345H1 - Global Popular Musics

Global Popular Musics is an introduction to popular music in its social and cultural context in a variety of international settings. Genres to be covered may include, but are not limited to, rock, hip-hop, country, and "world music". The course will take an issues-based approach to the study of popular music, focusing on topics such as the interplay of tradition and modernity; media and technology; race, gender, sexuality, class, and other facets of identity; urbanization and migration; and the markets and legal structures surrounding music.

Prerequisite: HMU111H1, HMU126H1, HMU225H1/
JMU210H1

Exclusion: HMU245H1

MUS408H1 - Wagner

Hours: 24L

A study of the life and works of the composer Richard Wagner, and of his influence on European cultural life from his time to the present day.

Breadth Requirements: Creative and Cultural Representations (1)

HMU425H1 - Topics: Medieval Music

Plainchant and polyphony, including topics for individual research.

Prerequisite: Completion of 4-course History requirement and one additional HMU elective, or P.I.

Exclusion: HMU330H1

HMU426H1 - Topics: Renaissance Music

A comprehensive survey of sacred and secular polyphony (1400-1600), including topics or independent research.

Prerequisite: Completion of 4-course History requirement and one additional HMU elective, or P.I.

Exclusion: HMU331H1

HMU430H1 - Topics: Classical Music

Pre-classical composers, Haydn, Mozart, Beethoven (1720-1830), including topics for individual research.

Prerequisite: Completion of 4-course History requirement and one additional HMU elective, or P.I.

HMU431H1 - Topics: Romantic Music

Instrumental and vocal genres, including topics for individual research.

Prerequisite: Completion of 4-course History requirement and one additional HMU elective, or P.I.

HMU432H1 - Topics: 20th Century Music

Developments and trends since 1910, including topics for individual research.

Prerequisite: Completion of 4-course History requirement and one additional HMU elective, or P.I.

HMU433H1 - Topics: Ethnomusicology

The history of the discipline from its roots in Comparative Musicology in the 1880s to the modern, holistic study of music and society. Other topics include transcription, transmission, and cultural appropriation. A variety of the world's traditions are illustrated with audio-visual materials, and students contribute personal surveys, analyses and debates.

Prerequisite: Completion of 4-course History requirement and one additional HMU elective, or P.I.

HMU435H1 - Topics in Ethnomusicology: Current Issues

An undergraduate seminar devoted to exploring an emergent sub-field of ethnomusicology. The sub-field to be explored will rotate, but some examples are: the study

of music and gender, race, or class; music and language; music and violence; sociomusicology; medical ethnomusicology; the ethnomusicology of popular music and technology; analytical approaches in ethnomusicology.

Prerequisite: Completion of 4-course History requirement and one additional HMU elective, or P.I.

HMU450H1 - Topics: Baroque Music

Instrumental and vocal genres (1600-1750), including topics for individual research.

Prerequisite: Completion of 4-course History requirement and one additional HMU elective, or P.I.

Exclusion: HMU333H1

Near and Middle Eastern Civilizations

Faculty List

Professors Emeriti

A. K. Grayson, MA, PhD, FRSC
 R. J. Leprohon, MA, PhD
 A. Pietersma, BD, PhD
 D. B. Redford, MA, PhD, FRSC
 J. A. Reilly, MA, PhD
 R. F. G. Sweet, MA, PhD

Associate Professors Emeriti

H. Dajani-Shakeel, MA, PhD
 L. Garshowitz, MA, PhD
 B. T. Lawson, MA, PhD
 L. S. Northrup, MA, PhD
 R. Sandler, MA, PhD

Assistant Professor Emerita

A. Porter, MA, PhD

Senior Lecturer Emeritus

R. T. Lutz, MA

Professor and Chair

P.-A. Beaulieu, MA, PhD, FRSC

Professors

H. Fox, MS, PhD
 A. Harrak, MA, PhD
 T. P. Harrison, MA, PhD
 R. D. Holmstedt, MA, PhD
 S. Metso, MA, DTh (UTM)
 W. Saleh, MA, PhD
 J. Schipper, PhD
 M. E. Subtelny, PhD
 M. Tavakoli-Targhi, MA, PhD (UTM)

Associate Professors

H. D. Baker, MPhil, DPhil
 K. Goebis, MA, DPhil
 J. P. Hanssen, MPhil, DPhil (UTM)
 T. Meacham, MA, PhD
 J. Miller, MA, PhD
 N. Moumtaz, MA, PhD
 V. Ostapchuk, PhD
 M.-A. Pouls Wegner, PhD
 E. Raffaelli, MA, PhD (UTM)
 C. Reichel, MA, PhD

Associate Professors, Teaching Stream

A.-K. Ali, MA, PhD
 A. Hojatollah Taleghani, MA, PhD

Assistant Professors

H. Bahooora, MA, PhD
 L. Hare, PhD
 R. Kana'an, PhD
 M. B. Methodieva, MA, PhD
 A. A. Razzaque, MA, PhD
 L. Welton, PhD
 A. Zakar, MA, PhD

Assistant Professors, Teaching Stream

A. Ali, MA, PhD
 G. Mercan, MPhil, DPhil

FEZANA Professor

M. Á. Andrés-Toledo, PhD

Royal Ontario Museum (Status Only)

L. V. Golombek, MA, PhD, FRSC, Professor Emerita
 K. A. Grzymski, MA, PhD, Associate Professor
 R. Mason, MA, PhD, Associate Professor
 F. Suleman, MSt, DPhil, Assistant Professor
 K. Sunahara, MA, PhD, Assistant Professor

Introduction

The Department is concerned with the interdisciplinary study of the civilizations and cultures of the Near and Middle East from Neolithic times until the present, including their archaeology, history, mythology, religion and thought, art and architecture, and language and literature (Akkadian, Ancient Egyptian, Arabic, Aramaic, Coptic, Ge'ez, Hebrew, Persian, Sumerian, Syriac, and Turkish). The Department's programs provide students with a unique opportunity to study non-Western complex societies and civilizations.

The term Near East has been used in scholarship to refer to the region of Southwest Asia at the eastern end of the Mediterranean, including the Levant, Mesopotamia, Egypt, and Anatolia, from ancient times until the advent of Islam in the seventh century AD. The term Middle East refers to a broader geographical area stretching from North Africa to West and Central Asia. Although Islam became the predominant religious culture and remains so to the present day, the Middle East has been home to many religious communities, including Christians, Jews, Zoroastrians, and others. And while Arabic functioned as the interlanguage in much the same way as Latin did in the Christian West, many other languages and cultures (notably Persian and Turkish) contributed to the formation of Islamic civilization.

The Department welcomes students of all academic backgrounds who wish to learn about the Near and Middle East. Many courses do not require knowledge of the languages of the region. However, the Department strongly believes that a deeper understanding of the cultures of the Near and Middle East can be achieved through the study of one or more of its languages.

Additional information about programs and courses offered in a particular year, as well as about the NMC Students' Union, can be found on the Department's website: www.nmc.utoronto.ca. Undergraduate enquiries should be directed to the Associate Chair, Undergraduate, Bancroft Building, 4 Bancroft Ave., Rm. 200 (nmc.undergrad@utoronto.ca).

Near and Middle Eastern Civilizations Programs

Near and Middle Eastern Civilizations Specialist (General) (Arts Program) - ASSPE1019

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(11.0 credits, including at least 4.0 credits at the 300+ level, of which 1.0 credit must be at the 400-level.)

At least 9.0 credits must be NMC and/or NML courses. 2.0 credits may be taken from courses offered by other departments pending approval by the Associate Chair Undergraduate of NMC.

1. First Year: 1.0 credit from [NMC101H1](#)/ [NMC102H1](#)/ [NMC103H1](#)/ [NMC104H1](#).

2. 4.0 credits in one or two primary source languages (with NML designator) from among the following languages: Akkadian, Ancient Egyptian, Arabic, Aramaic, Coptic, Ge'ez, Hebrew, Persian, Syriac, Turkish.

3. Higher years: 3.0 credits from [NMC241H1](#), [NMC242H1](#), [NMC245H1](#), [NMC248H1](#), [NMC267H1](#), [NMC270H1](#), [NMC274H1](#), [NMC275H1](#), [NMC276H1](#), [NMC277H1](#), [NMC278H1](#), [NMC280H1](#), [NMC281H1](#), [NMC282H1](#), [NMC340H1](#), [NMC341H1](#), [NMC342H1](#), [NMC343H1](#), [NMC344H1](#), [NMC346H1](#), [NMC347H1](#), [NMC348H1](#), [NMC355H1](#), [NMC356H1](#), [NMC358H1](#), [NMC359H1](#), [NMC365H1](#), [NMC370H1](#), [NMC372H1](#), [NMC373H1](#), [NMC375H1](#), [NMC376H1](#), [NMC378H1](#), [NMC379H1](#), [NMC386H1](#), [NMC387H1](#), [NMC388H1](#), [NMC389H1](#), [NMC446H1](#), [NMC447H1](#), [NMC449H1](#), [NMC452H1](#), [NMC454H1](#), [NMC471H1](#), [NMC472H1](#), [NMC473H1](#), [NMC475H1](#), [NMC476H1](#), [NMC477H1](#), [NMC478H1](#), [NMC479H1](#) (History & Society courses) and [JHM307H1](#), [JMH385H1](#), [JRN301H1](#), [NMC240H1](#), [NMC247H1](#), [NMC254H1](#), [NMC257H1](#), [NMC271H1](#), [NMC284H1](#),

[NMC289H1](#), [NMC330H1](#), [NMC331H1](#), [NMC371H1](#), [NMC380H1](#), [NMC381H1](#), [NMC384H1](#), [NMC484H1](#) (Religion & Thought courses).

2.0 credits from [NMC250H1](#), [NMC260H1](#), [NMC261Y0](#), [NMC262H1](#), [NMC263H1](#), [NMC264H1](#), [NMC265H1](#), [NMC266H1](#), [NMC267H1](#), [NMC268H1](#), [NMC345H1](#), [NMC360H1](#), [NMC361H1](#), [NMC364H1](#), [NMC365H1](#), [NMC366H1](#), [NMC367H1](#), [NMC368H1](#), [NMC369H1](#), [NMC398Y0](#), [NMC445H1](#), [NMC460H1](#), [NMC461H1](#), [NMC462H1](#), [NMC463H1](#), [NMC464H1](#), [NMC465H1](#), [NMC466H1](#), [NMC467H1](#), [NMC468H1](#), [NMC469Y1](#), [NMC470H1](#), [NMC474H1](#) (Archaeology courses) and [NMC243H1](#), [NMC244H1](#), [NMC246H1](#), [NMC251H1](#), [NMC252H1](#), [NMC253H1](#), [NMC255H1](#), [NMC256H1](#), [NMC258H1](#), [NMC259H1](#), [NMC315H1](#), [NMC316H1](#), [NMC350H1](#), [NMC351H1](#), [NMC352H1](#), [NMC353H1](#), [NMC354H1](#), [NMC357H1](#), [NMC394H1](#), [NMC395H1](#), [NMC396H1](#), [NMC450H1](#), [NMC480H1](#), [NMC491H1](#) (Art, Architecture, & Literature courses).

4. 1.0 credit of NMC or NML courses or those from a list of pre-approved courses offered by other departments.

Near and Middle Eastern Civilizations Specialist (Ancient) (Arts Program) - ASSPE2665

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(11.0 credits, including at least 4.0 credits at the 300+ level, of which 1.0 credit must be at the 400-level.)

At least 9.0 credits must be NMC and/or NML courses. 2.0 credits may be taken from courses offered by other departments, pending approval by the Associate Chair Undergraduate of NMC.

1. First Year: 1.0 credit from [NMC101H1](#)/ [NMC102H1](#)/ [NMC103H1](#)/ [NMC104H1](#).

2. 4.0 credits in one or two primary source languages (with NML designator) from among the following languages: Akkadian, Ancient Egyptian, Aramaic, Coptic, Ge'ez, Hebrew (Biblical, Middle), Persian (Old Persian, Avestan, Pahlavi), Syriac.

3. Higher years:

3.0 credits from [NMC245H1](#), [NMC248H1](#), [NMC267H1](#), [NMC270H1](#), [NMC276H1](#), [NMC277H1](#), [NMC343H1](#),

NMC344H1, NMC346H1, NMC347H1, NMC359H1, NMC365H1, NMC370H1, NMC446H1, NMC447H1, NMC449H1, NMC471H1, NMC472H1 (History & Society courses) and JRN301H1, NMC247H1, NMC254H1, NMC257H1, NMC289H1, NMC330H1, NMC331H1, NMC371H1, NMC380H1 (Religion & Thought courses).

2.0 credits from NMC250H1, NMC260H1, NMC261Y0, NMC262H1, NMC263H1, NMC264H1, NMC265H1, NMC266H1, NMC267H1, NMC268H1, NMC345H1, NMC360H1, NMC361H1, NMC364H1, NMC365H1, NMC366H1, NMC369H1, NMC398Y0, NMC445H1, NMC460H1, NMC461H1, NMC462H1, NMC463H1, NMC464H1, NMC465H1, NMC466H1, NMC467H1, NMC468H1, NMC470H1, NMC474H1 (Archaeology courses) and NMC246H1, NMC251H1, NMC252H1, NMC253H1, NMC259H1, NMC351H1, NMC352H1, NMC450H1, NMC480H1, NMC491H1 (Art, Architecture, & Literature courses).

4. 1.0 credit in Medieval or Modern stream courses or those from a list of pre-approved courses offered by other departments.

Medieval Stream:

NMC240H1, NMC242H1, NMC255H1, NMC256H1, NMC258H1, NMC259H1, NMC261Y0, NMC264H1, NMC270H1, NMC271H1, NMC274H1, NMC275H1, NMC276H1, NMC277H1, NMC280H1, NMC281H1, NMC282H1, NMC289H1, NMC299Y1, NMC340H1, NMC341H1, NMC342H1, NMC350H1, NMC353H1, NMC354H1, NMC357H1, NMC367H1, NMC368H1, NMC372H1, NMC374H1, NMC375H1, NMC376H1, NMC384H1, NMC385H1, NMC386H1, NMC387H1, NMC388H1, NMC389H1, NMC394H1, NMC395H1, NMC396H1, NMC399Y1, NMC454H1, NMC464H1, NMC465H1, NMC469Y1, NMC471H1, NMC472H1, NMC480H1, NMC484H1, NMC495Y1, NMC496H1, NMC497H1, NMC499Y1, JHM307H1

Modern Stream:

NMC195H1, NMC198H1, NMC241H1, NMC243H1, NMC244H1, NMC261Y0, NMC264H1, NMC270H1, NMC274H1, NMC275H1, NMC276H1, NMC277H1, NMC278H1, NMC284H1, NMC289H1, NMC299Y1, NMC315H1, NMC316H1, NMC340H1, NMC341H1, NMC348H1, NMC353H1, NMC355H1, NMC356H1, NMC358H1, NMC367H1, NMC368H1, NMC372H1, NMC373H1, NMC378H1, NMC379H1, NMC381H1, NMC384H1, NMC385H1, NMC386H1, NMC387H1, NMC388H1, NMC389H1, NMC394H1, NMC395H1, NMC399Y1, NMC452H1, NMC454H1, NMC464H1, NMC465H1, NMC471H1, NMC472H1, NMC473H1, NMC475H1, NMC476H1, NMC477H1, NMC478H1, NMC479H1, NMC480H1, NMC484H1, NMC495Y1, NMC496H1, NMC497H1, NMC499Y1, JMH385H1

Near and Middle Eastern Civilizations Specialist (Medieval) (Arts Program) - ASSPE2667

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(11.0 credits, including at least 4.0 credits at the 300+ level, of which 1.0 credit must be at the 400-level.)

At least 9.0 credits must be NMC and/or NML courses. 2.0 credits may be taken from courses offered by other departments, pending approval by the Associate Chair Undergraduate of NMC.

1. First Year: 1.0 credit from NMC101H1/ NMC102H1/ NMC103H1/ NMC104H1.

2. 4.0 credits in one or two primary source languages (with NML designator) from among the following languages: Arabic, Aramaic, Coptic, Ge'ez, Hebrew (Biblical, Middle), Persian, Syriac, Turkish.

3. Higher years:

3.0 credits from NMC242H1, NMC270H1, NMC274H1, NMC275H1, NMC276H1, NMC277H1, NMC280H1, NMC281H1, NMC282H1, NMC340H1, NMC341H1, NMC342H1, NMC372H1, NMC375H1, NMC376H1, NMC386H1, NMC387H1, NMC388H1, NMC389H1, NMC454H1, NMC471H1, NMC472H1 (History & Society courses) and JHM307H1, NMC240H1, NMC271H1, NMC289H1, NMC330H1, NMC331H1, NMC384H1, NMC385H1, NMC484H1 (Religion & Thought courses).

2.0 credits from NMC261Y0, NMC264H1, NMC367H1, NMC368H1, NMC464H1, NMC465H1, NMC469Y1 (Archaeology courses) and NMC255H1, NMC256H1, NMC258H1, NMC259H1, NMC350H1, NMC353H1, NMC354H1, NMC357H1, NMC394H1, NMC395H1, NMC396H1, NMC480H1 (Art, Architecture, & Literature courses).

4. 1.0 credit in Ancient or Modern stream courses or those from a list of pre-approved courses offered by other departments.

Ancient Stream:

NMC196H1, NMC197H1, NMC199H1, NMC245H1, NMC246H1, NMC247H1, NMC248H1, NMC250H1, NMC251H1, NMC252H1, NMC253H1, NMC254H1, NMC257H1, NMC259H1, NMC260H1, NMC261Y0,

NMC262H1, NMC263H1, NMC264H1, NMC265H1,
NMC266H1, NMC267H1, NMC268H1, NMC270H1,
NMC276H1, NMC277H1, NMC289H1, NMC299Y1,
NMC330H1, NMC331H1, NMC343H1, NMC344H1,
NMC345H1, NMC346H1, NMC347H1, NMC351H1,
NMC352H1, NMC359H1, NMC360H1, NMC361H1,
NMC362Y1, NMC364H1, NMC365H1, NMC366H1,
NMC369H1, NMC370H1, NMC371H1, NMC380H1,
NMC382Y1, NMC398Y0, NMC399Y1, NMC445H1,
NMC446H1, NMC447H1, NMC449H1, NMC450H1,
NMC460H1, NMC461H1, NMC462H1, NMC463H1,
NMC464H1, NMC465H1, NMC466H1, NMC467H1,
NMC468H1, NMC470H1, NMC471H1, NMC472H1,
NMC474H1, NMC480H1, NMC491H1, NMC495Y1,
NMC496H1, NMC497H1, NMC499Y1, JRN301H1

Modern Stream:

NMC195H1, NMC198H1, NMC241H1, NMC243H1,
NMC244H1, NMC261Y0, NMC264H1, NMC270H1,
NMC274H1, NMC275H1, NMC276H1, NMC277H1,
NMC278H1, NMC284H1, NMC289H1, NMC299Y1,
NMC315H1, NMC316H1, NMC340H1, NMC341H1,
NMC348H1, NMC353H1, NMC355H1, NMC356H1,
NMC358H1, NMC367H1, NMC368H1, NMC372H1,
NMC373H1, NMC378H1, NMC379H1, NMC381H1,
NMC384H1, NMC385H1, NMC386H1, NMC387H1,
NMC388H1, NMC389H1, NMC394H1, NMC395H1,
NMC399Y1, NMC452H1, NMC454H1, NMC464H1,
NMC465H1, NMC471H1, NMC472H1, NMC473H1,
NMC475H1, NMC476H1, NMC477H1, NMC478H1,
NMC479H1, NMC480H1, NMC484H1, NMC495Y1,
NMC496H1, NMC497H1, NMC499Y1, JMH385H1

Near and Middle Eastern Civilizations Specialist (Modern) (Arts Program) - ASSPE2669

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(11.0 credits, including at least 4.0 credits at the 300+ level, of which 1.0 credit must be at the 400-level.)

At least 9.0 credits must be NMC and/or NML courses. 2.0 credits may be taken from courses offered by other departments, pending approval by the Associate Chair Undergraduate of NMC.

1. First Year: 1.0 credit from NMC101H1/ NMC102H1/ NMC103H1/ NMC104H1.

2. 4.0 credits in one or two primary source languages

(with NML designator) from among the following languages: Arabic, Hebrew, Persian, Turkish.

3. Higher years:

3.0 credits from NMC241H1, NMC270H1, NMC274H1,
NMC275H1, NMC276H1, NMC277H1, NMC278H1,
NMC340H1, NMC341H1, NMC348H1, NMC355H1,
NMC356H1, NMC358H1, NMC372H1, NMC373H1,
NMC378H1, NMC379H1, NMC386H1, NMC387H1,
NMC388H1, NMC389H1, NMC452H1, NMC454H1,
NMC471H1, NMC472H1, NMC473H1, NMC475H1,
NMC476H1, NMC477H1, NMC478H1, NMC479H1
(History & Society courses) and JMH385H1, NMC284H1,
NMC289H1, NMC330H1, NMC331H1, NMC381H1,
NMC384H1, NMC484H1 (Religion & Thought courses).

2.0 credits from NMC261Y0, NMC264H1, NMC367H1,
NMC368H1, NMC464H1, NMC465H1 (Archaeology
courses) and NMC243H1, NMC244H1, NMC315H1,
NMC316H1, NMC353H1, NMC394H1, NMC395H1,
NMC480H1 (Art, Architecture, & Literature courses).

4. 1.0 credit in Ancient or Medieval stream courses or those from a list of pre-approved courses offered by other departments.

Ancient Stream:

NMC196H1, NMC197H1, NMC199H1, NMC245H1,
NMC246H1, NMC247H1, NMC248H1, NMC250H1,
NMC251H1, NMC252H1, NMC253H1, NMC254H1,
NMC257H1, NMC259H1, NMC260H1, NMC261Y0,
NMC262H1, NMC263H1, NMC264H1, NMC265H1,
NMC266H1, NMC267H1, NMC268H1, NMC270H1,
NMC276H1, NMC277H1, NMC289H1, NMC299Y1,
NMC330H1, NMC331H1, NMC343H1, NMC344H1,
NMC345H1, NMC346H1, NMC347H1, NMC351H1,
NMC352H1, NMC359H1, NMC360H1, NMC361H1,
NMC362Y1, NMC364H1, NMC365H1, NMC366H1,
NMC369H1, NMC370H1, NMC371H1, NMC380H1,
NMC382Y1, NMC398Y0, NMC399Y1, NMC445H1,
NMC446H1, NMC447H1, NMC449H1, NMC450H1,
NMC460H1, NMC461H1, NMC462H1, NMC463H1,
NMC464H1, NMC465H1, NMC466H1, NMC467H1,
NMC468H1, NMC470H1, NMC471H1, NMC472H1,
NMC474H1, NMC480H1, NMC491H1, NMC495Y1,
NMC496H1, NMC497H1, NMC499Y1, JRN301H1

Medieval Stream:

NMC240H1, NMC242H1, NMC255H1, NMC256H1,
NMC258H1, NMC259H1, NMC261Y0, NMC264H1,
NMC270H1, NMC271H1, NMC274H1, NMC275H1,
NMC276H1, NMC277H1, NMC280H1, NMC281H1,
NMC282H1, NMC289H1, NMC299Y1, NMC340H1,
NMC341H1, NMC342H1, NMC350H1, NMC353H1,
NMC354H1, NMC357H1, NMC367H1, NMC368H1,
NMC374H1, NMC375H1, NMC376H1, NMC384H1,
NMC386H1, NMC387H1, NMC388H1, NMC389H1,
NMC394H1, NMC395H1, NMC396H1, NMC399Y1,
NMC464H1, NMC465H1, NMC469Y1, NMC471H1,

NMC472H1, NMC480H1, NMC484H1, NMC495Y1, NMC496H1, NMC497H1, NMC499Y1, JHM307H1

Near and Middle Eastern Civilizations Major (General) (Arts Program) - ASMAJ1019

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(6.0 credits including at least 2.0 credits at the 300+ level, of which 1.0 credit must be at the 400-level)

At least 5.0 credits must be NMC and/or NML courses. 1.0 credit may be taken from courses offered by other departments, pending approval by the Associate Chair Undergraduate of NMC.

1. First Year: 0.5 credit from NMC101H1/ NMC102H1/ NMC103H1/ NMC104H1.

2. Higher years:

3.0 to 4.0 credits from any NMC courses

1.0 to 2.0 credits in language (NML courses)

Near and Middle Eastern Civilizations Major (Ancient) (Arts Program) - ASMAJ2665

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(6.0 credits including at least 2.0 credits at the 300+ level, of which 1.0 credit must be at the 400-level)

At least 5.0 credits must be NMC and/or NML courses. 1.0 credit may be taken from courses offered by other departments, pending approval by the Associate Chair Undergraduate of NMC.

1. First Year: 0.5 credit from NMC101H1/ NMC102H1/ NMC103H1/ NMC104H1.

2. Higher years:

2.0 to 3.0 credits from Group A and 1.0 credit from Group B/Group C.

1.0 to 2.0 credits in Ancient Stream languages: Akkadian, Ancient Egyptian, Aramaic, Coptic, Ge'ez, Hebrew (Biblical, Middle), Persian (Old Persian, Avestan, Pahlavi), Syriac.

Group A (Ancient Stream)

JRN301H1, NMC196H1, NMC197H1, NMC199H1, NMC245H1, NMC246H1, NMC247H1, NMC248H1, NMC250H1, NMC251H1, NMC252H1, NMC253H1, NMC254H1, NMC257H1, NMC259H1, NMC260H1, NMC261Y0, NMC262H1, NMC263H1, NMC264H1, NMC265H1, NMC266H1, NMC267H1, NMC268H1, NMC270H1, NMC276H1, NMC277H1, NMC289H1, NMC299Y1, NMC330H1, NMC331H1, NMC343H1, NMC344H1, NMC345H1, NMC346H1, NMC347H1, NMC351H1, NMC352H1, NMC359H1, NMC360H1, NMC361H1, NMC364H1, NMC365H1, NMC366H1, NMC369H1, NMC370H1, NMC371H1, NMC380H1, NMC398Y0, NMC399Y1, NMC445H1, NMC446H1, NMC447H1, NMC449H1, NMC450H1, NMC460H1, NMC461H1, NMC462H1, NMC463H1, NMC464H1, NMC465H1, NMC466H1, NMC467H1, NMC468H1, NMC470H1, NMC471H1, NMC472H1, NMC474H1, NMC480H1, NMC491H1, NMC495Y1, NMC496H1, NMC497H1, NMC499Y1

Group B (Medieval Stream)

NMC240H1, NMC242H1, NMC255H1, NMC256H1, NMC258H1, NMC259H1, NMC261Y0, NMC264H1, NMC270H1, NMC271H1, NMC274H1, NMC275H1, NMC276H1, NMC277H1, NMC280H1, NMC281H1, NMC282H1, NMC289H1, NMC299Y1, NMC340H1, NMC341H1, NMC342H1, NMC350H1, NMC353H1, NMC354H1, NMC357H1, NMC367H1, NMC368H1, NMC372H1, NMC374H1, NMC375H1, NMC376H1, NMC384H1, NMC385H1, NMC386H1, NMC387H1, NMC388H1, NMC389H1, NMC394H1, NMC395H1, NMC396H1, NMC399Y1, NMC454H1, NMC464H1, NMC465H1, NMC469Y1, NMC471H1, NMC472H1, NMC480H1, NMC484H1, NMC495Y1, NMC496H1, NMC497H1, NMC499Y1, JHM307H1

Group C (Modern Stream)

NMC195H1, NMC198H1, NMC241H1, NMC243H1, NMC244H1, NMC261Y0, NMC264H1, NMC270H1, NMC274H1, NMC275H1, NMC276H1, NMC277H1, NMC278H1, NMC284H1, NMC289H1, NMC299Y1, NMC315H1, NMC316H1, NMC340H1, NMC341H1, NMC348H1, NMC353H1, NMC355H1, NMC356H1, NMC358H1, NMC367H1, NMC368H1, NMC372H1, NMC373H1, NMC378H1, NMC379H1, NMC381H1, NMC384H1, NMC385H1, NMC386H1, NMC387H1, NMC388H1, NMC389H1, NMC394H1, NMC395H1, NMC399Y1, NMC452H1, NMC454H1, NMC464H1, NMC465H1, NMC471H1, NMC472H1, NMC473H1, NMC475H1, NMC476H1, NMC477H1, NMC478H1,

NMC479H1, NMC480H1, NMC484H1, NMC495Y1,
NMC496H1, NMC497H1, NMC499Y1, JMH385H1

Near and Middle Eastern Civilizations Major (Medieval) (Arts Program) - ASMAJ2667

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(6.0 credits including at least 2.0 credits at the 300+ level, of which 1.0 credit must be at the 400-level)

At least 5.0 credits must be NMC and/or NML courses. 1.0 credit may be taken from courses offered by other departments, pending approval by the Associate Chair Undergraduate of NMC.

1. First Year: 0.5 credit from NMC101H1/ NMC102H1/ NMC103H1/ NMC104H1.

2. Higher years:

2.0 to 3.0 credits from Group B and 1.0 credit from Group A/Group C.

1.0 to 2.0 credits in Medieval Stream languages: Arabic, Aramaic, Coptic, Hebrew (Biblical, Middle), Persian, Syriac, Turkish.

Group A (Ancient Stream)

NMC196H1, NMC197H1, NMC199H1, NMC245H1,
NMC246H1, NMC247H1, NMC248H1, NMC250H1,
NMC251H1, NMC252H1, NMC253H1, NMC254H1,
NMC257H1, NMC259H1, NMC260H1, NMC261Y0,
NMC262H1, NMC263H1, NMC264H1, NMC265H1,
NMC266H1, NMC267H1, NMC268H1, NMC270H1,
NMC276H1, NMC277H1, NMC289H1, NMC299Y1,
NMC330H1, NMC331H1, NMC343H1, NMC344H1,
NMC345H1, NMC346H1, NMC347H1, NMC351H1,
NMC352H1, NMC359H1, NMC360H1, NMC361H1,
NMC362Y1, NMC364H1, NMC365H1, NMC366H1,
NMC369H1, NMC370H1, NMC371H1, NMC380H1,
NMC382Y1, NMC398Y0, NMC399Y1, NMC445H1,
NMC446H1, NMC447H1, NMC449H1, NMC450H1,
NMC460H1, NMC461H1, NMC462H1, NMC463H1,
NMC464H1, NMC465H1, NMC466H1, NMC467H1,
NMC468H1, NMC470H1, NMC471H1, NMC472H1,
NMC474H1, NMC480H1, NMC491H1, NMC495Y1,
NMC496H1, NMC497H1, NMC499Y1, JRN301H1

Group B (Medieval Stream)

JHM307H1, NMC240H1, NMC242H1, NMC255H1,
NMC256H1, NMC258H1, NMC259H1, NMC261Y0,

NMC264H1, NMC270H1, NMC271H1, NMC274H1,
NMC275H1, NMC276H1, NMC277H1, NMC280H1,
NMC281H1, NMC282H1, NMC289H1, NMC299Y1,
NMC340H1, NMC341H1, NMC342H1, NMC350H1,
NMC353H1, NMC354H1, NMC357H1, NMC367H1,
NMC368H1, NMC372H1, NMC375H1, NMC376H1,
NMC384H1, NMC385H1, NMC386H1, NMC387H1,
NMC388H1, NMC389H1, NMC394H1, NMC395H1,
NMC396H1, NMC399Y1, NMC454H1, NMC464H1,
NMC465H1, NMC469Y1, NMC471H1, NMC472H1,
NMC480H1, NMC484H1, NMC495Y1, NMC496H1,
NMC497H1, NMC499Y1

Group C (Modern Stream)

NMC195H1, NMC198H1, NMC241H1, NMC243H1,
NMC244H1, NMC261Y0, NMC264H1, NMC270H1,
NMC274H1, NMC275H1, NMC276H1, NMC277H1,
NMC278H1, NMC284H1, NMC289H1, NMC299Y1,
NMC315H1, NMC316H1, NMC340H1, NMC341H1,
NMC348H1, NMC353H1, NMC355H1, NMC356H1,
NMC358H1, NMC367H1, NMC368H1, NMC372H1,
NMC373H1, NMC378H1, NMC379H1, NMC381H1,
NMC384H1, NMC385H1, NMC386H1, NMC387H1,
NMC388H1, NMC389H1, NMC394H1, NMC395H1,
NMC399Y1, NMC452H1, NMC454H1, NMC464H1,
NMC465H1, NMC471H1, NMC472H1, NMC473H1,
NMC475H1, NMC476H1, NMC477H1, NMC478H1,
NMC479H1, NMC480H1, NMC484H1, NMC495Y1,
NMC496H1, NMC497H1, NMC499Y1, JMH385H1

Near and Middle Eastern Civilizations Major (Modern) (Arts Program) - ASMAJ2669

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(6.0 credits including at least 2.0 credits at the 300+ level, of which 1.0 credit must be at the 400-level)

At least 5.0 credits must be NMC and/or NML courses. 1.0 credit may be taken from courses offered by other departments, pending approval by the Associate Chair Undergraduate of NMC.

1. First Year: 0.5 credit from NMC101H1/ NMC102H1/ NMC103H1/ NMC104H1.

2. Higher years:

2.0 to 3.0 credits from Group C and 1.0 credit from Group A/Group B.

1.0 to 2.0 credits in Modern Stream languages: Arabic, Hebrew, Persian, Turkish.

Group A (Ancient Stream)

NMC196H1, NMC197H1, NMC199H1, NMC245H1,
NMC246H1, NMC247H1, NMC248H1, NMC250H1,
NMC251H1, NMC252H1, NMC253H1, NMC254H1,
NMC257H1, NMC259H1, NMC260H1, NMC261Y0,
NMC262H1, NMC263H1, NMC264H1, NMC265H1,
NMC266H1, NMC267H1, NMC268H1, NMC270H1,
NMC276H1, NMC277H1, NMC289H1, NMC299Y1,
NMC330H1, NMC331H1, NMC343H1, NMC344H1,
NMC345H1, NMC346H1, NMC347H1, NMC351H1,
NMC352H1, NMC359H1, NMC360H1, NMC361H1,
NMC362Y1, NMC364H1, NMC365H1, NMC366H1,
NMC369H1, NMC370H1, NMC371H1, NMC380H1,
NMC382Y1, NMC398Y0, NMC399Y1, NMC445H1,
NMC446H1, NMC447H1, NMC449H1, NMC450H1,
NMC460H1, NMC461H1, NMC462H1, NMC463H1,
NMC464H1, NMC465H1, NMC466H1, NMC467H1,
NMC468H1, NMC470H1, NMC471H1, NMC472H1,
NMC474H1, NMC480H1, NMC491H1, NMC495Y1,
NMC496H1, NMC497H1, NMC499Y1, JRN301H1

Group B (Medieval Stream)

NMC240H1, NMC242H1, NMC255H1, NMC256H1,
NMC258H1, NMC259H1, NMC261Y0, NMC264H1,
NMC270H1, NMC271H1, NMC274H1, NMC275H1,
NMC276H1, NMC277H1, NMC280H1, NMC281H1,
NMC282H1, NMC289H1, NMC299Y1, NMC340H1,
NMC341H1, NMC342H1, NMC350H1, NMC353H1,
NMC354H1, NMC357H1, NMC367H1, NMC368H1,
NMC374H1, NMC375H1, NMC376H1, NMC384H1,
NMC386H1, NMC387H1, NMC388H1, NMC389H1,
NMC394H1, NMC395H1, NMC396H1, NMC399Y1,
NMC464H1, NMC465H1, NMC469Y1, NMC471H1,
NMC472H1, NMC480H1, NMC484H1, NMC495Y1,
NMC496H1, NMC497H1, NMC499Y1, JHM307H1

Group C (Modern Stream)

JMH385H1, NMC195H1, NMC198H1, NMC241H1,
NMC243H1, NMC244H1, NMC261Y0, NMC264H1,
NMC270H1, NMC274H1, NMC275H1, NMC276H1,
NMC277H1, NMC278H1, NMC284H1, NMC289H1,
NMC299Y1, NMC315H1, NMC316H1, NMC340H1,
NMC341H1, NMC348H1, NMC353H1, NMC355H1,
NMC356H1, NMC358H1, NMC367H1, NMC368H1,
NMC372H1, NMC373H1, NMC378H1, NMC379H1,
NMC381H1, NMC384H1, NMC386H1, NMC387H1,
NMC388H1, NMC389H1, NMC394H1, NMC395H1,
NMC399Y1, NMC452H1, NMC454H1, NMC464H1,
NMC465H1, NMC471H1, NMC472H1, NMC473H1,
NMC475H1, NMC476H1, NMC477H1, NMC478H1,
NMC479H1, NMC480H1, NMC484H1, NMC495Y1,
NMC496H1, NMC497H1, NMC499Y1

Near and Middle Eastern Civilizations Minor (Arts Program) - ASMIN1019

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

4.0 credits, including at least 1.0 credit at the 300+ level.
 All 4.0 credits must be NMC and/or NML courses.

Faculty of Arts & Science Language Citation

The Department of Near and Middle Eastern Civilizations participates in the Faculty of Arts & Science's Language Citation for Arabic, modern Hebrew, Persian, Turkish, Biblical Hebrew, and Ancient Egyptian. The study of languages is a demanding and intellectually rewarding educational experience that provides access to the varieties of human culture and expression. The Language Citation requires the completion of 3.0 credits and recognizes a significant level of achievement in the advanced study of a language.

The Citation in Arabic is available to students who, having completed the introductory course in Arabic (NML110Y1 or the equivalent prerequisite training), earn a grade of at least B- in two additional credits in Arabic language (NML210Y1, NML310Y1, or NML410Y1).

The Citation in modern Hebrew is available to students who, having completed the introductory courses in modern Hebrew (NML155H1 and NML156H1 or the equivalent prerequisite training), earn a grade of at least B- in two additional credits in modern Hebrew language (NML255H1, NML256H1, NML355H1, and NML356H1).

The Citation in Persian is available to students who, having completed the introductory Persian language course (NML260Y1 or the equivalent prerequisite training), earn a grade of at least B- in two additional credits in Persian language/literature (NML360Y1, NML460H1, NML461H1, NML462H1, NML463H1, NML466H1, NML467H1, or NML468H1).

The Citation in Turkish is available to students who, having completed the introductory course in Turkish (NML270Y1 or the equivalent prerequisite training), earn a grade of at least B- in two additional credits in Turkish language (NML370Y1, NML371H1, and NML470Y1).

The Citation in Biblical Hebrew is available to students who, having completed the introductory course in Biblical Hebrew ([NML250Y1](#) or the equivalent prerequisite training), earn a grade of at least B- in two additional credits in Biblical Hebrew language ([NML350H1](#), [NML351H1](#), [NML450H1](#), and [NML459H1](#)).

The Citation in Ancient Egyptian is available to students who, having completed the introductory course in Ancient Egyptian ([NML240Y1](#) or the equivalent prerequisite training), earn a grade of at least B- in two additional credits in Ancient Egyptian language/literature ([NML340Y1](#), [NML440H1](#), [NML441H1](#), and [NML442Y1](#)).

Students should note that, as explained in the [About Programs of Study](#) section of this Calendar, the Language Citation is not equivalent to an academic program for purposes of degree completion; however, language courses taken as part of the Requirements for an NMC Program of study may count towards a Language Citation in the relevant language(s).

Regarding Near and Middle Eastern Civilizations Courses

Not all courses are taught every year. Please check the [Timetable Builder](#) for the list of courses offered in 2024-2025. Courses with the designator NML indicate courses devoted to the study of the languages of the Near and Middle East (at Introductory, Intermediate, and Advanced levels), as well as courses that study texts written in the original languages. The Department reserves the right to place students in the course level best suited to their linguistic preparation.

Near and Middle Eastern Civilizations Courses

NMC First-Year Foundations

NMC195H1 - Rebels, Misfits, and Outcasts in Modern Arabic Literature

Previous Course Number: NMC242H1
Hours: 36S

This course examines modern Arabic literary texts that portray marginalized social figures and groups who have been excluded from a protective system of resources and privileges. Students will read novels and short stories by prominent Arab authors who have represented marginal

First-Year Foundations Courses

First-Year Foundations Seminars are open only to newly-admitted Faculty of Arts & Science students. They offer the opportunity to explore interesting and often controversial topics in a small-group setting with professors who are among the Faculty's leading scholars. Students engage in academically rigorous discussions and develop strong written and oral communication skills in the process. The Department offers six FYF Seminars on topics ranging from the ancient to the modern. First-Year Foundations Seminars:

- Count as 0.5 of the 20.0 credits required for an HBA, HBSc or BCom.
- First-Year Foundations Seminars may count towards your Program. Please check with your college registrar or the NMC Department for further details.
- Can be counted towards the breadth requirement.

For the list of NMC First-Year Foundations Seminars see the Faculty of Arts & Science Calendar.

Gateway Courses

These courses are designed to introduce students to the major civilizations and cultures of the Near and Middle East—ancient, medieval, and modern—and to present students with the range of possibilities for further study in their chosen area of interest. These courses provide an opportunity for students to improve their writing skills under the supervision of the Writing Integrated Teaching (WIT) program of the Faculty of Arts & Science. Students pursuing any one of the NMC Specialist Programs are required to take two of these Gateway courses, whereas students opting to do any one of the Major Programs are required to take only one.

social groups in their fiction, including representations of the urban poor, the peasantry, the delinquent, the prostitute, sexual minorities, women who reject normative roles, and the political rebel. These fictional texts address issues such as political resistance and rebellion, economic precarity, and social exclusion. Students will engage with these texts by critically examining the role of literature in narrating unspoken and suppressed histories. The class will also introduce students to theoretical modes of literary analysis and interpretation. All texts will be read in English translation. Authors include Mohamed Choukri, Hanan al-Shaykh, Alifa Rifaat, Sonallah Ibrahim, and Arwa Salih. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: [NMC242H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NMC196H1 - Law and Order in the Ancient Near East

Hours: 24S

Are human beings basically evil or good? What creates order in society? Coercion? Religion? Can societies operate without law? This course explores different systems of authority and control through ancient texts, focusing on the very first ideas of law in human history. We examine actual law codes, court cases on real estate disputes and conspiracy to commit murder and rape, as well as alternative means of regulating communities such as ideology, ritual and magic. While most courses on ancient law approach the topic from the perspective of modern concerns, this course situates the first law in its own historical, social and political context. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NMC197H1 - Myth and History in the Bible

Hours: 24S

Reading the Bible is easy, but reading it well isn't. Should we read its stories as history? All of it? Or perhaps only part of it? If so, which parts? And if some parts aren't meant to be read as history, then what are they? Was Jonah really swallowed by a large fish? Did the sun and moon stand still for Joshua? Did Moses really part the Red Sea? Did Jesus really raise Lazarus from the dead? Are miracles necessarily fiction? In this seminar, we will read together many of the most colourful stories of the Bible, sometimes alongside similar stories from the cultural context of ancient Israel, and discuss what genre (history, myth, legend, folktale) they belong to and how this affects our reading of these texts. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NMC198H1 - Iranian Women Reveal Their Lives: The First Generation

Hours: 24S

Persian women born in the late 19th century and early decades of the 20th century grew up in a period of major political, social, and cultural change that impacted women. A course reading, *Memories of a Persian Childhood*, illustrates the important role of the family and childhood experiences in the lives of a first generation of women to

have access to a modern education, and step beyond traditional boundaries. Women's personal writings are the main sources we use to learn about female aspirations, hopes and disappointments as well as the challenge of living in a patriarchal society that took for granted that a woman would devote her life to caring for home and family. We will explore how this generation navigated restraints on women in the years of Pahlavi rule (1925-1979) and served as a model of female contribution for a young generation following the 1979 Islamic Revolution. Each seminar will consist of the instructor's introductory comments, a discussion of the assigned readings and an exchange of opinions about the life of women in different environments. The final mark is based on the readings in the course syllabus, the instructor's lectures, and class discussions of assigned topics. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NMC199H1 - Babylon: Fact vs. Fiction

Hours: 24S

The ancient city of Babylon, now a vast archaeological site in Iraq about 100km south of Baghdad, has captured people's imagination up to this day. Who has not heard of the Hanging Gardens of Babylon, the Biblical Tower of Babel, or the sci-fi TV series *Babylon 5*? Yet, how much of that reflects the reality of ancient Babylon? This course will explore the city of Babylon through its texts and archaeology and contrast this data with the way the city has been remembered over the past two thousand years. However, the goal of the course is not only to investigate how myths about Babylon have been constructed throughout the centuries. It will also look at the shortcomings of contemporary academic research on Babylon, and how difficult it is to reconstruct humankind's distant past. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

JRN199H1 - Exodus and Enslavement

Hours: 24S

Popular conceptions of enslavement in North America have influenced how we frequently imagine enslavement in Exodus and related biblical and related texts from the ancient Near East. Yet, depictions of enslavement in these ancient texts may be strikingly different from our ideas of enslavement in North America. This course explores similarities and differences between enslavement in these different historical contexts. It also examines how biblical texts were utilized in debates over and revolts

against enslavement primarily in the eighteenth and nineteenth century. All readings will be in English. No knowledge of Hebrew is required. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

Gateway Courses

NMC101H1 - Land of the Pharaohs

Hours: 24L/12T

Egypt is one of the oldest known civilizations on the African continent. Deeply embedded within early African history, Egypt was also inextricably linked with the history of many civilizations in the Ancient Near East. From pyramids to mummies and from King Tut to the Hanging Gardens of Babylon, the course will trace the history of ancient Egypt from its foundation around 3050 BCE to its incorporation into the Roman Empire in the 1st Century BCE. The focus will be on various aspects of Egyptian culture, including the institution of kingship, the role of women, and the characteristic features of Egyptian art, literature, and religion. Emphasis will be placed on the methods by which knowledge about this ancient civilization can be obtained.

Breadth Requirements: Society and its Institutions (3)

NMC102H1 - Heartland of Ancient Empires

Hours: 24L/12T

Mesopotamia and the ancient Near East—the area of modern Iraq and adjacent regions—witnessed the rise of the first cities in the fourth millennium BC and the emergence of the world's first empires in the first millennium BC. This course traces Mesopotamian history from the beginnings of agriculture through to the earliest cities, following the trajectory of political development from city states, to territorial states, and finally to the great empires of Assyria, Babylonia, and Achaemenid Persia and their aftermath. It studies the peoples and polities of the ancient Near East, including the Sumerians, Assyrians, Babylonians, and Persians. It also examines their cultural contributions, from the development of cuneiform writing to their achievements in law, administration, science, art and architecture, religion, and literature.

Breadth Requirements: Society and its Institutions (3)

NMC103H1 - The Islamic World

Hours: 24L/12T

A broad introduction to Islam, including the history, culture, and religion of the people and places that came to be influenced by Islam and that constitute a world civilization. What makes something (an empire or state, or a work of art or music) Islamic? When and how did that which we think of today as Islamic come about? How has “the Islamic” changed over time? With these questions in mind, this course introduces students to major figures, events, themes, institutions, and intellectual currents in Islamic history, from its beginnings in the 7th century to the modern period. Key topics to be covered include the rise and spread of Islam, the Qur'an and the role of Arabic, political thought, law and society, and literary and artistic expressions. Attention is paid to the geographical and ethno-linguistic scope of the Muslim world, demonstrating the diversity of peoples and traditions that make up Islamic civilizations.

Breadth Requirements: Society and its Institutions (3)

NMC104H1 - The Biblical World

Hours: 24L/12T

Examine the history, lands, peoples, religions, literatures and cultures that produced the Hebrew Bible/Old Testament. Topics to be covered include an overview of the geography and history of Ancient Israel and Judea, the role of the Hebrew, Aramaic, and Greek languages, the literary genres reflected in biblical and some contemporary non-biblical texts, and the scholarly methods by which the Bible is studied.

Breadth Requirements: Society and its Institutions (3)

Culture and Civilization Courses

NMC240H1 - For the Love of the Prophet: Muhammad in the Islamic Tradition

Hours: 24L

The Prophet Muhammad became a focal point of the Islamic tradition. This course covers the development of this relationship with Muhammad, through various forms of expressions, from poetic to religious to artistic. Various emotional rubrics were given to the relationship to Muhammad: from honoring him, to emulating him to loving

him. The course covers the theological debates about the status of Muhammad (his nature, his relationship to God, his powers to intercede). The course includes the Sufi movement relationship to Muhammad and culminates in the study of the poetic corpus that Muslims call madih.

Recommended Preparation: NMC103H1 or RLG204H1
Breadth Requirements: Thought, Belief and Behaviour (2)

NMC241H1 - Anthropology of the Middle East

Hours: 24L

This course aims to familiarize students with the anthropological study of the contemporary Middle East. It introduces key questions and concepts for anthropological study: who speaks for the Middle East? What is culture? What is ethnography? It analyzes systems of power and exclusion, and everyday life and relations in countries like Egypt, Turkey, Iran, Iraq, Syria, Lebanon, Palestine, Israel, and Kuwait. The course will provide critical perspectives on gender, religion, family relations, national belonging, migrant workers, and refugees. Students will apply anthropological methods learned in class to do an independent project.

Exclusion: RLG355H1

Recommended Preparation: NMC278H1/ ANT207H1
Breadth Requirements: Society and its Institutions (3)

NMC242H1 - Women and Money in the Medieval Middle East

Hours: 24S

Money can be a source of power, a way of building and affirming relationships, and a means of demonstrating a person's values and commitments. In this course, we will explore women's social roles, power, vulnerabilities, choices, fears, and desires by examining how they gained and spent their money. We will be looking at the experiences of royal women and enslaved women; Muslims, Christians, and Jews; conservative and rebellious; married and single; those who worked within the home, and those who worked outside of it. The course is centered primarily on texts originally written in Arabic between the 9th and 14th centuries, but all sources will be offered in English translation.

Prerequisite: 2.0 credits in BR= 1/ BR= 2

Exclusion: NMC277H1 (Topics in Near & Middle Eastern Civilizations: *Women and Money in the Medieval Middle East*) offered in Fall 2023

Breadth Requirements: Society and its Institutions (3)

NMC243H1 - The Arabic Novel

Hours: 24L

This course focuses on the origins and development of the novel genre in the modern Arabic literary tradition. The course examines the aesthetic qualities of the novel as an artistic form as well as the ways it has represented and intervened in the modern social, political, and cultural upheavals that have shaped the Arabic-speaking world from the mid 19th century to the 21st century. Students will read literary criticism that addresses the Arabic novel's emergence and consolidation as a major literary form and will engage with contemporary methods of literary analysis and interpretation. Topics addressed in the course include textual representations of colonialism and post-colonialism, gender and sexuality, representations of the peasantry, the nation-state and Arab nationalism, and discourses of progress and modernity. Authors include Ahmad Faris al-Shidyaq, Yahya Haqqi, Naguib Mahfouz, Tayeb Salih, Latifa al-Zayyat, Mohamad Choukri, and Hanan al-Shaykh. Readings of novels and criticism in English translation.

Breadth Requirements: Creative and Cultural Representations (1)

NMC244H1 - The Arab Spring and Cultural Production

Hours: 24L

This course examines the Arab revolutions that began in 2011 and their ongoing repercussions through the lens of cultural production. How have Arab writers and artists contributed to and reflected upon the Arab revolutions known as the Arab Spring? How has cultural production mediated the demands, aspirations, and struggles of the Arab peoples during and after these transformative revolutionary struggles? The cultural texts examined in this course range from those that mediate the euphoric optimism heralded by the revolutions to those that narrate and reflect upon the dystopian aftermath after revolutionary failure, including fiction and art that considers the reassertion of authoritarian rule, the violence of civil war, and the homelessness of exile. Through novels, poetry, music, art, and film, the course will broadly consider the role of culture as an alternative mode of narrating and historicizing the Arab revolutions.

Prerequisite: 3.0 credits at the 100-level

Breadth Requirements: Creative and Cultural Representations (1)

NMC245H1 - Women in the Ancient Near East

Hours: 24L

The course examines written and archaeological sources to discuss the status and role of women in the ancient Near East, focusing in particular on the first millennium BCE.

Recommended Preparation: NMC101H1, NMC102H1

Breadth Requirements: Society and its Institutions (3)

NMC246H1 - Sumerian and Babylonian Literature in Translation

Hours: 24L

This course explores some of the world's oldest literature, including the Epic of Gilgamesh and the Babylonian Epic of Creation. It surveys the major literary genres from ancient Mesopotamia, including epics, myths, lyrical poetry, wisdom literature, and humorous tales. It covers literary compositions written in the Sumerian and Babylonian languages using the cuneiform script, ranging in date from the third millennium BC through to the first millennium BC. The course also examines the scholarly and cultural context in which these works were created and preserved for posterity, including the role of scribal training, the nature of Mesopotamian scholarship, royal sponsorship, and the formation of ancient libraries.

Recommended Preparation: NMC102H1

Breadth Requirements: Creative and Cultural Representations (1)

NMC247H1 - The Intellectual History of the Ancient Near East

Hours: 24L

Survey of the intellectual life in the Ancient Near East from the emergence of writing in Mesopotamia and Egypt at the end of the third millennium BCE until the Hellenistic and Roman periods. Covers issues of orality vs. literacy, state and scribal control, notions of progress, origins and purpose of knowledge, as well as areas such as taxonomy of the natural world, astronomy, mathematics, medicine, divination.

Recommended Preparation: NMC101H1, NMC102H1, or NMC104H1

Breadth Requirements: Society and its Institutions (3)

NMC248H1 - Ancient Bureaucracies

Hours: 24L

Where were taxes first collected? When was the first receipt issued? What did the first account ledgers look like? This course offers an introduction to the development of early bureaucracies in ancient Mesopotamia (Iraq), Iran and Syria. Find out how accounting procedures evolved after 6,500 BC, from closing storage containers in Neolithic villages with seals and sealings to complex recording procedures in urban settings that ultimately led to the development of writing on clay tablets around 3,100 BC. Learn how different patterns of irrigation in river-based agricultural societies such as Mesopotamia, Egypt, and China led to similar yet distinct systems of resource management and administration, using different writing materials (e.g. clay tablets, papyrus) based on available raw materials. And see how bureaucratic procedures, while helping to maximize efficiency in an ancient society, could also create a lack of flexibility, ultimately leading to political decline or collapse.

Recommended Preparation: NMC102H1

Breadth Requirements: Society and its Institutions (3)

NMC250H1 - Pyramids, Temples, and Tombs: An Introduction to Ancient Egyptian Architecture

Hours: 24L

Monuments like the Great Pyramid of Giza or the incredible temple at Karnak are some of the defining elements of Pharaonic civilization. This course will introduce students to ancient Egyptian architecture and trace its development from the Predynastic through the New Kingdom. Using textual, archaeological, and pictorial evidence, this course will investigate the emergence of mudbrick and stone architecture, how the construction of pyramids and other monuments was organized, and changes in tomb and temple construction over time.

Prerequisite:

1.0 credit at the 100+-level in BR= 1/ BR= 2/ BR= 3

Recommended Preparation: NMC101H1

Breadth Requirements: Society and its Institutions (3)

NMC251H1 - Voices from Ancient Egypt

Hours: 24L

This course introduces students to the culture of ancient Egypt through the study of "functional" textual materials.

After a brief introduction to the Ancient Egyptian language and writing system, we will read texts from domestic, religious (comprising funerary and ritual), historical, and scientific backgrounds to paint a rich picture of the daily life and experiences of the ancient Egyptians. By way of example, we will illustrate Egyptian funerary beliefs on the basis of texts found in tombs, such as autobiographies, offering formulae, and letters left there for the dead by their families; or the role of the pharaoh for the Egyptian state by studying monumental inscriptions left on temple walls, boundary stelae, and in the tombs of the Egyptian elite. No knowledge of Ancient Egyptian required; all texts read in translation.

Recommended Preparation: NMC101H1

Breadth Requirements: Creative and Cultural Representations (1)

NMC252H1 - Hebrew Bible

Hours: 24L

An introduction to the critical study of the Hebrew Bible/Old Testament and the related literature of ancient Jewish communities (Apocrypha, Pseudepigrapha, Dead Sea Scrolls). English translations used; no knowledge of Hebrew is required.

Recommended Preparation: NMC104H1

Breadth Requirements: Creative and Cultural Representations (1)

NMC253H1 - Egyptian Myths

Hours: 24L

This course explores ancient Egyptian mythical writings and representations, starting with the myths contained in the Pyramid Texts of the 3rd millennium BCE and ending with the narrative mythical tales of the 1st millennium BCE and beyond. Definitions and theories of ancient Egyptian myth as well as historical developments will be discussed, and we will attempt to explain why religious beliefs and stories changed. The course is structured systematically, focusing in particular on mythical accounts that elucidate Egyptian cosmic, royal, and funerary beliefs as well as the intersection of these domains. All texts read in translation.

Recommended Preparation: NMC101H1

Breadth Requirements: Creative and Cultural Representations (1)

NMC254H1 - The Mummy: Technology and Transformation

Hours: 24L

This course explores the significance of mummies in contexts ranging from ancient Egyptian to modern, tracing the development of Egyptian mummification techniques and the roles and uses of mummies as transformative elements allowing access to the afterlife, sources of information about ancient individuals, characters in literature and film, and objects for display in museums.

Breadth Requirements: Thought, Belief and Behaviour (2)

NMC255H1 - Love, Battle, and Wit: Classics of Premodern Arabic Literature

Hours: 24L

This course surveys the premodern Arabic literary heritage, from pre-Islamic poetry to literature of the Mamluk period, focusing on texts that remained influential sometimes until the present day. Students read classic works in translation each week, while discussion focuses on social context and close reading. Throughout, we note the development of literary forms over time, and the way authors reference previous works. Readings include: the animal fable book *Kalila wa Dimna*, excerpts from anecdote collections (*adab*), multilingual Andalusí songs (*muwashshah*), the linguistically playful trickster tales called *maqamat*, an obscene shadow play by Ibn Daniyal, popular epic, and some of the most famous poems by Labid, Jarir, Abu Nuwas, Abu Tammam, al-Mutanabbi, and Ibn Nubata.

Recommended Preparation: 1.0 credit in Humanities/BR=1 or 2

Breadth Requirements: Creative and Cultural Representations (1)

NMC256H1 - 1001 Nights Around the World

Hours: 24L

The 1001 Nights has had many lives, in many languages, and across many media. This course starts off with a detailed reading, in translation, of one of the oldest surviving Arabic versions of the text, with consideration of its literary and social context, and its sources. We then move forward in time to examine how the 1001 Nights was expanded, adapted, and disseminated from then until today. A key transformation moment occurred between 1704-1717 with the publication of Antoine Galland's

French version, composed with the input of Syrian storyteller Hanna Diab. This version was widely disseminated and became a basis for most subsequent modern adaptations. We consider adaptations both before and after this turning point, including manuscripts, translations, novels, ballets, short stories, and films produced around the world. Throughout, we consider the politics and aesthetics of these historical translations, adaptations, and transformations.

Recommended Preparation: 1.0 credit in Humanities/BR=1 or 2

Breadth Requirements: Creative and Cultural Representations (1)

NMC257H1 - Vice and Virtue in Biblical Traditions

Hours: 24L

This course examines the formation and development of ancient Jewish literary traditions, centering around complex narrative and poetic figures such as Eve, Abraham, Moses, David, Esther, Job, and Lady Wisdom. Traditions to be studied will be selected from the Hebrew Bible (Old Testament) and from early Jewish interpretive writings: the apocrypha, pseudepigrapha, and Dead Sea Scrolls.

Exclusion: NMC277H1 (Topics in Near & Middle Eastern Civilizations: Valor and Failure in Biblical Traditions), offered in Fall 2019

Breadth Requirements: Thought, Belief and Behaviour (2)

NMC258H1 - The Book of Kings: Persian Myth, History, and Art

Hours: 24L

The *Shahnameh*, or Book of Kings, is the single most important book in Iranian national culture and one of the great epics of world literature. Composed in Persian by the poet Ferdowsi in the late 10th–early 11th centuries, it had a deep and lasting impact not only on Iran, but also on those cultures that came under the influence of Persian language, literature, and courtly traditions. The course examines, in English translation, the *Shahnameh*'s presentation of the history of the mythical dynasties of the ancient kings of Iran from the creation of the world to the Sasanians, the last historical dynasty to rule Iran before the Muslim Arab conquests. As the *Shahnameh* was frequently illustrated, attention will also be devoted to the manuscript tradition, which exhibits some of the finest examples of medieval Persian painting.

Breadth Requirements: Creative and Cultural Representations (1)

NMC259H1 - Literature of Ancient and Late Antique Iran

Hours: 24L

This course explores the most important texts of the Zoroastrian literature of ancient and late antique Iran and serves as a broad introduction to the mythical and ritual world of Zoroastrianism and the contours of pre-Islamic Iranian thought. The course is divided into two parts: a) Old Iranian literature, such as the Avestan religious literature and the Old Persian inscriptions, and b) Middle Persian (Pahlavi) literature, including epic poetry (Chronicle of Ardakhshir, narrating the deeds of the first Sasanian king), didactic and wisdom literature (Memorial of the Vizier Wuzurgmihr; Explanation of Chess and Backgammon), apocalyptic and visionary literature (Book of the Righteous Wiraz, describing his journey to heaven and hell), texts on cosmology (Primordial Creation), and encyclopaedic works (Acts of the Zoroastrian Religion), as well as specimens of Manichaean literature in Middle Iranian languages. All readings are in English translation.

Breadth Requirements: Creative and Cultural Representations (1)

NMC260H1 - Why the Ancient Near East? Investigating the Great Transformations in Pre- and Proto-History

Hours: 48L

This is an experiential course that asks what it would have been like for people in the ancient Near East as their world underwent the profound changes wrought by domestication, farming, urbanism, and state formation. We focus on the sensory experiences of the body, and their effect upon the mind, by reconstructing and using spaces and objects that have come to define the archaeological periods from 10,000 to 2500 BCE. From circular communal buildings and the constraints and possibilities they offer, to replastering skulls and making hand-held figurines, to the performance of a ritual text, we link traditional teaching with walking a mile in ancient footwear. Participation in this course requires an active imagination and a willingness to get physical.

Breadth Requirements: Society and its Institutions (3)

NMC261Y0 - Field Archaeology

Participation for 4 - 7 weeks during the summer in an approved archaeological excavation in the eastern Mediterranean/Middle East. This experience is then critiqued in a previously assigned essay researched and written under guidance upon return. Departmental permission is required in December-February prior to the fieldwork. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NMC262H1 - Why the Ancient Near East? The Historic Periods

Hours: 48L

From 2500 to 333 BCE, the ancient Near East saw the world's first empire, the birth of international diplomacy, burgeoning sea-trade and piracy, perennial warfare and the emergence of new ethnic identities like the Philistines and Israelites. Explore the archaeological evidence for these events in Mesopotamia, Egypt, Anatolia and the Levant.

Breadth Requirements: Society and its Institutions (3)

NMC263H1 - The Archaeology of Gods, Ghosts, Witches and Demons

Hours: 24L

This class investigates archaeological traces of human interaction with the supernatural world in the ancient Near East, including figurines, temples, skulls, statues, and cylinder seals. In order to contextualize different ways of thinking about other worlds, we also look at cross-cultural comparisons ranging from Africa to the Americas.

Recommended Preparation: [NMC102H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

NMC264H1 - The Archaeology of Stuff

Previous Course Number: NMC369Y1

Hours: 24L

Discover how the structure of animal skin enables the making of leather and tattoos; why mighty kings boasted about tree-cutting expeditions; how chariots, stirrups, and gunpowder changed the very structure of contemporary

societies; why spears are better than swords. Understand and appreciate the materials in the world around you.

Exclusion: [NMC369Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NMC265H1 - Archaeology in War Zones: Syria, Iraq, Afghanistan

Hours: 24L

Focusing on Syria, Iraq and Afghanistan, this course raises some controversial issues in coming to grips with the impact of war on retrieving, interpreting, and preserving the past. Find out the many ways we can work to preserve the history and culture of places at risk, now and in the future.

Breadth Requirements: Creative and Cultural Representations (1)

NMC266H1 - Archaeologies of Power

Hours: 36L

Who were the first powerful leaders? How did they portray themselves, and what was the source and basis of their power? This course provides a comprehensive survey of the origins and rise of political leadership in the Near East from its beginnings in the Neolithic period to the famous kings and military leaders of Sumer, Assyria, and Babylon. Sources consulted include archaeological data (architecture, monuments, narrative art) as well as historical sources. The course is intended as an introduction to a broader understanding of the mechanisms that result in the formation of political power structures. Although it focuses on the ancient Near East, the course will discuss parallels from other parts of the world, both ancient and modern, that are relevant to understanding manifestations of political power in our present-day world.

Recommended Preparation: [NMC102H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC267H1 - Everyday Life in Ancient Egypt

Hours: 24L/12T

The course focuses on lived experience for people from many different socio-economic levels in ancient Egypt. Through the analysis of archaeological and mortuary evidence, artifacts, and human, animal, and plant remains

we will explore the daily lives of Egyptians over time as the natural, social and technological landscape changed, posing questions such as what they ate, how they made things, what kinds of social connections they formed, how they defined their identities, what kind of houses and village, town, or urban settings they lived in, what things they feared, how they died, and what they might have believed. We will look at remains from settlements like Hierakonpolis, Abydos, Giza, Kahun, Tell el-Dab'a, Amarna, Deir el-Medina, and Thebes in detail to understand aspects of the lives of the people who inhabited them.

Exclusion: [NMC362Y1](#)

Recommended Preparation: [NMC101H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC268H1 - Data Science Applications in Archaeology

Hours: 12L/12P/12S

Digital technology and the growth of “big data” are transforming not only the ways in which archaeologists present and communicate their research, but also increasingly the ways they collect and analyze data. This course uses underlying concepts from the emerging field of data science and helps students develop hands-on skills in various critical techniques in archaeological data analysis and modelling, focusing on case studies from the Near East.

Prerequisite: 3.0 credits at the 100-level.

Breadth Requirements: Society and its Institutions (3)

NMC270H1 - Christians of the Middle East

Hours: 24L

The course will introduce students to the Christian communities living in the Middle East since the distant past, identified by ecclesiastical and or ethnic terms, including Armenian, Copt, Greek-Melkite, Maronite, and Syriac. The course will discuss the plurality of their cultural, literary, and theological traditions, the social and intellectual roles of their monasteries, the contributions of their top religious authorities in diplomacy between Byzantium and the Sassanians, their position in the Islamic world and contributions to Islamic culture, philosophy, sciences, and theology, interreligious dialogues and polemics with Islam.

Recommended Preparation: [NMC102H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC271H1 - The Sufi Tradition in Islam

Hours: 24L

The history of asceticism and mysticism in the Islamic tradition, with particular attention to the formative period as well as the breadth and diversity of Sufism across the Islamic world, from West Africa and Spain, to the Balkans and Central Asia, to China and Southeast Asia. We begin with the origins of the piety movement in early Islam, and the ways in which it responded to late antique Christian monasticism. We then examine the emergence of classical Sufism in the 9th century, its basic concepts and practices, the rise of saints, the formation of Sufi orders, the social and cultural context for key developments, as well as the reasons for the contested legacy of Sufism in the modern world. Major figures for discussion include Rabi'a, Junayd, Hallaj, Ghazali, Ibn Arabi, and Rumi.

Breadth Requirements: Thought, Belief and Behaviour (2)

NMC274H1 - The Turks in History: From Nomads of the Steppe Frontier to Islamic Rulers

Hours: 24L

The course examines the roles of Turks and other primarily nomadic peoples as raiders, migrants, slave-soldiers, and empire-builders in the ancient and medieval history of Eurasia (including Central Asia, the Middle East, and Eastern Europe) and in the formation of the Islamic world. Topics covered include long-distance economic and cultural contacts (“silk roads”) facilitated by “steppe empires”; the Islamization of the Turks and their gradual takeover of Iranian, Arab, and other Muslim lands; lifeways (especially pastoral nomadism); the relationship between nomadic and sedentary societies; political structures; steppe warfare; the role of physical geography and the environment. Students explore the histories and landscape geographies of Turks through fascinating primary sources and internet resources. The course illustrates the key role that Turks played in the formation of the modern world on the Eurasian continent.

Exclusion: [NMC274Y1](#)

Recommended Preparation: [NMC103H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC275H1 - The Mongol Empire and the World It Made

Hours: 24L

Most of Eurasia (the Middle East, East and South Asia, Eastern Europe) was once incorporated into the Mongol Empire and greatly influenced by Mongol rule. It may be said that the beginnings of modern history on the Eurasian continent were shaped by the impact of the Mongols and their non-Mongol (mainly Turkic) partners. This course explores the history of the pan-Eurasian empire founded by Chinggis Khan (Genghis Khan) in the 13th century and the smaller empires into which it devolved: Yuan China-Mongolia, Chaghatayid Mongolia-Central Asia, Ilkhanid Iran-Anatolia, and the Golden Horde Eastern Europe-Western Siberia. The course also surveys various post-Mongol successor states, such as the Timurid and Mughal Empires, and the Kazakh, Uzbek, and Crimean Tatar Khanates, as well as touches upon important non-Chinggisid successor polities, such as Muscovy-Russia and Slavic Cossacks. Students explore the history and landscape geographies of the Mongol venture through fascinating primary sources and internet resources.

Exclusion: [NMC274Y1](#)

Recommended Preparation: [NMC103H1](#), [NMC274H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC276H1 - Topics in Near & Middle Eastern Civilizations

Topics vary from year to year, depending on instructor.

NMC277H1 - Topics in Near & Middle Eastern Civilizations

Topics vary from year to year, depending on instructor.

NMC278H1 - Introduction to the Modern Middle East

Hours: 24L/12T

This course is an introduction to the modern history of the region commonly known as the Middle East, from the early-19th-century until the present. The course is designed to be an in-depth "overview" of central questions of geography itself: What is the region? How might we rethink its history through a focus on forms of sociality, economy, culture, and violence that extend well-beyond the limits of the "Middle East"?

The course begins in the 19th-century, a period of state-building, intellectual revival, and global imperialism. We will focus on the Arab, Ottoman and Persian worlds to follow the processes of social and institutional reforms, militarization, capital expansion, and the refashioning of

divine authority. Each week, we will focus on a particular theme such as imperial reform, sectarianism, colonialism, expert practices, resistance, the making of citizens, publics, subjects and cultural politics.

The questions that frame the course, which proceeds chronologically, include: How did global forces and local dynamics coalesce to shape the politics of the modern Middle East? How might we understand the region's history from the 19th-century onward while integrating institutional, political, social, and cultural currents? How were global ideological trends woven together with local ideas about authority, identity, community and the state?

Recommended Preparation: [NMC103H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC280H1 - The Caliphate: Early Islamic History from Ancient Arabia to the Abbasid Empire

Previous Course Number: NMC273Y1

Hours: 24L/12T

The formative period of Islam, including the Prophet and origins of the caliphate. This course surveys the history of the Middle East and its religious, social, and political transformations between late antiquity and the medieval period, from roughly the 6th to the 10th century CE. Starting with the available evidence on pre-Islamic Arabs, we study the making of the Islamic empire from Spain to Central Asia, the early caliphates (Umayyads, Abbasids, and Fatimids), the emergence of competing traditions in Islam (Sunnis, Shi'is, and Ibadis), and other developments of enduring significance. Particular attention is paid to primary sources and scholarly debates on the challenges of early Islamic historiography.

Exclusion: [NMC273Y1](#)

Recommended Preparation: [NMC103H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC281H1 - Islamic History from the Crusades to Slave Sultans

Previous Course Number: NMC273Y1

Hours: 24L/12T

The medieval Islamic world from the decline of the early empire and the fall of Baghdad to the flourishing commonwealth during the lifetime of Ibn Khaldun. This course surveys key developments in religion, politics, and society across the Middle East from the 11th century up to the 15th century CE. Starting with the situation on the eve of the Crusades, we trace broader patterns in Islamic history through the emergence of various sultanates

(including the dynasty of Salah al-Din Ayyubi and the Mamluks) as well as regional dynamics from North Africa and Spain in the West to Iran and India in the East.

Exclusion: [NMC273Y1](#)

Recommended Preparation: [NMC103H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC282H1 - Medicine in the Medieval Islamic World

Hours: 24S

The course examines both the scientific and social history of medicine in the medieval Middle East. We will examine the history of Arabic medicine and its relation to Greek and Sanskrit traditions of medicine and pharmacology. We will also look at "Prophetic medicine," medical magic, pilgrimage healing sites, and folk practices, and how they interacted with the so-called "medicine of the physicians." We will consider how doctors from different religious groups perceived each other and were perceived by their patients, and how desperation for healing made people willing to cross social boundaries and seek out help from people of different religions, ethnicities, and genders. We will also examine the lives of some of the great physicians of medieval history.

Prerequisite: 2.0 credits in BR= 1/ BR= 2

Breadth Requirements: Thought, Belief and Behaviour (2)

NMC284H1 - Judaism and Feminism: Legal Issues from Menstruation to Ordination

Hours: 24L

Agitation for change exists in religious practice worldwide in areas of access, status, inclusion, and egalitarianism. Traditional religion is often in conflict with egalitarian modernity. This sometimes results in difficulties with religious identification. This course will explore the interaction between feminism and Judaism. We will examine how Jewish law (*halakhah*) sometimes conflicts with ideas of egalitarianism particularly in legal disabilities for women such as divorce, lack of access to high-level Torah study, and discrimination in public religious roles. The traditional exemption of women from the obligation of Torah study had great impact on women's religious responsibility and status. Various movements within Judaism competed in efforts to resolve these difficulties. In this course we will consider to what extent inclusion and egalitarianism have become complementary to traditional Judaism.

Breadth Requirements: Thought, Belief and Behaviour (2)

NMC289H1 - Introduction to Coptic Studies

Hours: 24L

Overview of the history of the Copts from political, religious, social and economic perspectives. Literary and documentary sources will illustrate these different aspects of Coptic Civilization. The focus on Coptic Monasticism will underline the role of monasteries as conservers of the Coptic Orthodox Church tradition.

Breadth Requirements: Thought, Belief and Behaviour (2)

JRN301H1 - Disability in the Hebrew Bible and Related Texts

Hours: 24L

The Hebrew Bible (sometimes called the Old Testament) has influenced ideas about disability in societies across the globe for thousands of years. Yet, notions of disability in the Hebrew Bible may be strikingly different from what we might imagine. This course explores how some biblical texts and related ancient literature conceptualize disability in relation to issues of ethnicity, sexuality, beauty, age, social class, religious expression and so on. We will examine a number of these issues both in their ancient context and in some more recent interpretations of the Hebrew Bible. All readings will be in English. No knowledge of Hebrew is required.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

JHM307H1 - Islamic Legal History: Formation and Encounters

Hours: 24L

This course examines the formation and encounters of Islamic Law with Legal Others from roughly the 8th century CE to the early formation of the Ottoman Empire. The Islamic legal tradition arose in a complex historical context in which legal traditions mapped onto, and gave legal cover to, imperial polities. As the Islamic polity expanded, so too did the imagination of jurists having to contend with new realities (political, geographic, economic, and otherwise). This course will introduce students to the formation of Islamic law in a context of

contending legal orders, its ongoing encounters with legal orders in the course of Islamic expansion, and the retraction of Islamic legal orders and institutions as a tradition that anticipated political sovereignty experienced the limits of that sovereignty. Examples will be drawn from the Middle East, Africa, South Asia, and South East Asia. The course will introduce students to the disciplinary focus of Law and History through a focus on doctrine, institution, and the implications on both as territory and people are subject to varying waves of imperial designs and local resistance.

Prerequisite: HIS268H1

Breadth Requirements: Society and its Institutions (3)

NMC315H1 - The Structure of Arabic Language

Previous Course Number: NML315H1

Hours: 24L

This course investigates formal properties of Arabic language. It provides students with an in-depth knowledge of the grammar of the language focussing on the areas of phonetics, phonology, morphology, syntax, and the interaction between phonology and morphology.

Prerequisite: NML210Y1 or LIN100Y1, or permission of the instructor

Exclusion: NML315H1

Recommended Preparation: LIN229H1, LIN232H1

Breadth Requirements: Creative and Cultural Representations (1)

NMC316H1 - Cultural Encounter in Arabic Narrative

Hours: 36S

This course examines historical and literary texts that narrate Muslim and Arab encounters with cultural difference. Students will read travel narratives, autobiographies, and fictional texts that chronicle encounters with the Arab-Islamic world's cultural "others." The course first examines travel narratives from the medieval Islamic period, including al-Sirafi's travels to India and China, and Ibn Fadlan's encounters with peoples inhabiting lands north of the Abbasid Empire, such as the Vikings. Students then consider how travel narratives in the modern period are transformed due to radical changes in the balance of power between Europe and the Middle East, first reading 19th-century travel narratives to Paris (al-Tahtawi), and then focusing on 20th-century texts that narrate the travels of Arab men and women to Europe and North America (Leila Ahmed, Sayyid Qutb, Nawal El Saadawi). Students will also read texts that depict encounters with non-Arabs within the

modern Arab world, such as literary depictions of American oil workers in the Arab Gulf (Munif). All readings are in English translation.

Prerequisite: 3.0 credits in BR 1/BR 2

Breadth Requirements: Creative and Cultural Representations (1)

NMC330H1 - King David: Musician, Monarch, or Murderer?

Hours: 24L

For many people, King David is one of the most beloved characters in the Bible. But where did our ideas about David come from? Was he a brilliant poet who wrote many of the Psalms, a youthful champion who defeated the giant Goliath or as a ruthless monarch capable of killing his political opponents? This course will explore attempts to reconstruct the historical David from various biblical texts, comparable ancient literature, and what historians know (and don't know) about the time in which his story is set. All readings will be in English. No knowledge of Hebrew is required.

Prerequisite: 4.0 credits at the 200-level

Breadth Requirements: Thought, Belief and Behaviour (2)

NMC331H1 - Samson: Lover, Liar, lion-slayer

Hours: 24L

Over the centuries, Samson has captured the imagination of countless scholars, artists, and poets. Although often stereotyped as little more than a thoughtless strong man prone to violent outbursts, he is actually one of the most complex and enigmatic characters in the Bible. This course will explore biblical depictions of this often misunderstood figure and his complicated relationships with his family, his lovers, and his enemies. We will analyze his story within its ancient historical context and in some more recent interpretations. All readings will be in English. No knowledge of Hebrew is required.

Prerequisite: 4.0 credits at the 200-level

Breadth Requirements: Thought, Belief and Behaviour (2)

NMC340H1 - History of Late Antique & Early Islamic Iran

Previous Course Number: NMC348Y1

Hours: 24L

The political, religious, and cultural history of greater Iran from Late Antiquity to the Mongol invasions in the early 13th century. The course surveys the reigns of the kings of the Sasanian empire (3rd–7th centuries); traces the progress of the Muslim Arab conquests in the mid-7th century that resulted in the Persian empire's collapse and the gradual Islamization of its population; and examines the subsequent formation of regional Iranian dynasties that were instrumental in the creation of a new Perso-Islamic cultural identity.

Exclusion: NMC348Y1

Recommended Preparation: NMC280H1

Breadth Requirements: Society and its Institutions (3)

NMC341H1 - Safavid Iran: Reign of the Shahs

Previous Course Number: NMC348Y1

Hours: 24L

The course focuses on the period of the Safavid dynasty (16th–18th centuries) which represented a watershed in the history of Iran not only because of its adoption and promotion of Shi'ism as the state religion, but also on account of its fostering an imperial court culture that patronized the arts and architecture. The reigns of the Safavid shahs will be examined from the point of view of their political, religious, economic, and cultural history, as well as their relationship to the polities that immediately preceded them and their interactions with the contemporary Muslim states they neighbored, in particular, the Ottomans in the west and the Mughals in the east.

Exclusion: NMC348Y1

Recommended Preparation: NMC274H1, NMC340H1

Breadth Requirements: Society and its Institutions (3)

NMC342H1 - History & Sources of Egyptian Monasticism

Hours: 24L

Presents an historical overview on the origins of Egyptian monasticism based on written sources. Comparison of written sources with archaeological artifacts reveals the relation between spiritual and material aspects of monastic life. Literary sources produced for different monastic orders -- such as sermons, canons and biographies -- will be studied.

Recommended Preparation: NMC289H1/ NMC368H1

Breadth Requirements: Society and its Institutions (3)

NMC343H1 - Farmers to Pyramid Builders: Cultural and Political History of Ancient Egypt I

Hours: 24L/12T

Exploration of the primary archaeological, architectural, and inscriptional sources, questioning and analyzing ideas about Egypt's development from farming communities at the dawn of history to an early state that built great pyramids for its kings, collapsed into civil war, and grew to become a colonizing power in the Middle Kingdom.

Prerequisite: 5.0 credits in any field or 1.0 credit in NMC

Breadth Requirements: Society and its Institutions (3)

NMC344H1 - Hyksos Subjects to Empire Builders: Cultural and Political History of Ancient Egypt II

Hours: 24L/12T

Exploration of the primary archaeological, architectural, and inscriptional sources, questioning interpretations and analyzing how Egypt confronted foreign domination and developed into a major empire in the New Kingdom under Thutmose III, Hatshepsut, Akhenaten, and Ramesses II, then fragmented politically in the Third Intermediate Period and ultimately became a colony itself.

Prerequisite: 5.0 credits in any field or 1.0 credit in NMC

Breadth Requirements: Society and its Institutions (3)

NMC345H1 - Nubian Archaeology

Hours: 24S

This course introduces students to the archaeology of ancient Nubia. For far too long, Nubia's rich archaeological past has been overlooked or interpreted through the lens of Egyptian sources. This course seeks to understand the archaeological past of the Nubian Nile Valley (and deserts) on its own terms. This course will proceed chronologically from the Neolithic through to the end of the Napatan period. Beyond learning about the development of Nubian archaeological cultures, this seminar will also introduce students to some of the most dynamic current scholarly debates in this vibrant field.

Prerequisite:

2.0 credit at the 200+-level in BR= 1/ BR= 2/ BR= 3

Breadth Requirements: Society and its Institutions (3)

NMC346H1 - Ancient Mesopotamia I: Sumerians and Akkadians

Hours: 24L

The political and cultural history of the peoples of ancient South-Western Asia from 3000 BCE to the destruction of Babylon by the Hittites ca. 1600 BCE. (Offered in alternate years)

Prerequisite: 3.0 credits in Humanities/BR= 1 or 2
Breadth Requirements: Society and its Institutions (3)

NMC347H1 - Ancient Mesopotamia II: Assyrians and Babylonians

Hours: 24L

This course traces the political development and cultural history of Mesopotamia, from the territorial states of the Late Bronze Age to the world's first empires in the 1st millennium BC, those of Assyria, Babylonia, and Achaemenid Persia. It also traces the subsequent history of Mesopotamia through the Seleucid and early Parthian eras, down to the end of cuneiform writing around the end of the 1st millennium BC. The course emphasizes the critical analysis of primary written sources (in translation) for reconstructing the history of the peoples of Mesopotamia. It also examines their achievements in literature, science and scholarship, and art and architecture.

Prerequisite: 3.0 credits in Humanities
Breadth Requirements: Society and its Institutions (3)

NMC348H1 - Kurdish Studies: A Critical Introduction

Hours: 24S

This is a 300-level course that will provide a holistic exploration of the multifaceted aspects of Kurdish life, delving deep into the vibrant traditions, struggles, and achievements of the Kurdish people. As we traverse through the diverse regions of Kurdistan and its diasporas, we will critically examine the current situations, challenges, and triumphs, offering an insightful perspective on a community that has played a significant role in the socio-political landscape of the Middle East. We will critically engage with classic and modern texts in Kurdish studies and examine them in the context of modern Middle East studies. We will aim to foster a deep understanding of the Kurdish identity and the complex forces that have shaped it.

Prerequisite: 1.5 NMC credits at the 200-level
Breadth Requirements: Society and its Institutions (3)

NMC350H1 - Christian Literature from the Middle East in Translation

Hours: 24L

Survey of various literary genres from works produced by Armenian, Coptic, Maronite, Melkite, and Syriac authors between the 3rd and the 19th centuries CE. Genres include theology in poetry, biblical commentaries, historiography and chronicles, hagiography, songs and epics, apologetics, and travel accounts.

Prerequisite: NMC270H1
Recommended Preparation: NMC102H1
Breadth Requirements: Creative and Cultural Representations (1)

NMC351H1 - Dead Sea Scrolls

Hours: 24L

This course provides an examination of the historical and cultural context in which the Dead Sea Scrolls were authored and copied, the types of writings included in the Scrolls, and the ancient Jewish groups behind these texts. It also discusses the significance of the Scrolls for understanding the textual development of the Hebrew Bible, ancient scriptural interpretation, and the thought world of the Jews during the period that gave birth to both Rabbinic Judaism and early Christianity. No knowledge of Hebrew or Aramaic is required. (Offered alternate years)

Prerequisite: 9.0 credits
Recommended Preparation: NMC104H1 or NMC252H1, or equivalent in another humanities department
Breadth Requirements: Creative and Cultural Representations (1)

NMC352H1 - Ancient Egyptian Literature

Hours: 24L

This course focuses on the analysis of Ancient Egyptian literary texts from a variety of different genres. We will read examples of instructional and wisdom literature, poetry, literary narratives, and mythical tales. Issues such as how to best define terms like "literature" or "genre" for such an ancient culture will be discussed, and we will try to trace the development of literary texts in pharaonic Egypt—from the earliest attestations of coherent prose in the tombs of the Egyptian Old Kingdom (around 2500

BCE), via the full-blown Late Egyptian narratives of the Ramesside Period (around 1200 BCE), to instances of reiterations of the older genres in the Late and Ptolemaic Periods (to about 300 BCE). No knowledge of Ancient Egyptian is required; all texts will be read in translation

Prerequisite: Any 0.5 credit on ancient Egypt offered by academic units within the Faculty of Arts & Science

Recommended Preparation: [NMC101H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NMC353H1 - Possible Worlds: Arabic Speculative Fiction

Hours: 24S

This course examines the relationship between political critique and the textual production of *possible worlds*, taking the Arabic literary canon as its example. Among the key concepts analyzed will be history, time, language, and selfhood. Students will experiment with appropriately using concepts from modern critical theory in the analysis of premodern and modern Arabic literary texts. Readings include Qur'anic apocalyptic *suras*, the philosophical novel *Hayy ibn Yaqzan*, *Sindbad the Sailor* and other travel narratives, al-Ma'arri's satirical narrative of a visit to the afterlife, trickster tales of the *maqama* genre. We then turn to the merging of novelistic forms, selfhoods, and conceptions of political organization with those of the *maqama* in early novels by al-Muwaylihi and al-Shidyaq, ending with contemporary conceptual art and a dystopic novel.

Prerequisite: 4.0 credits in Humanities/BR= 1 or 2

Breadth Requirements: Creative and Cultural Representations (1)

NMC354H1 - Abbasid Literature and the Sciences

Hours: 24S

This course examines Arabic literary works of the Abbasid empire (750-1258 CE) that engaged with the flourishing study of natural sciences, Greek philosophy, and the philosophies of language and knowledge in the Islamic sciences. Students will read narrative works by Ibn al-Muqaffa', al-Jahiz, Ibn Qutayba, al-Tanukhi, al-Tawhidi, 'Abd al-Latif al-Baghdadi, as well as poetry dealing with scientific and philosophical concepts. Students will ask how (and whether) Abbasid authors differentiated between the categories of literature, science, beauty, knowledge, and narrative, and how they imagined interactions between them. All readings are in English translation.

Prerequisite: 3.0 BR= 1/2 credits at the 200+ level

Breadth Requirements: Creative and Cultural Representations (1)

NMC355H1 - Ottoman Empire: The Age of Reform

Hours: 24L

The course examines the history of the Ottoman Empire beginning with the inauguration of the first Western-inspired reforms at the end of the 18th century until the empire's dissolution over the course of World War I. It explores the transformation of Ottoman politics, society, and intellectual and cultural life during a period marked by active reform efforts and increasing contacts with the West, which had an impact on the empire's diverse populations. Topics include the Nizam-i Cedid (New Order), the Tanzimat, the Hamidian era, the Young Turk revolution, constitutionalism, women, and the emergence of artistic expressions of modernity, such as theatre and painting. The course also provides insights into the Ottoman legacy in modern Turkey, the Middle East, and the Balkans, and seeks to situate the Ottoman experience in a global context.

Prerequisite: 4.0 credits

Recommended Preparation: [NMC278H1](#), [NMC377Y1](#), [NMC378H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC356H1 - Anthropology of Islam

Hours: 24L

This course introduces students to studies of contemporary Islam that are based on extensive periods of research with Muslim communities in their own languages using anthropological methods. What do such studies teach us about the varied ways Muslims engage with their religious tradition in the modern world? And how can such studies make us think differently about gender, economy, science, and secularism? We will discuss examples from Nigeria to Somalia, Egypt, Turkey, and Iran, to India, Pakistan, and Indonesia, to Canada, the US, and Europe. Students will apply anthropological methods learned in class to do research among a Muslim community in Toronto or online.

Exclusion: [RLG355H1](#)

Recommended Preparation: [NMC103H1](#)/ [RLG204H1](#)/ [NMC241H1](#)/ [ANT207H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC357H1 - Gender and Sexuality in Premodern Arabic Literature

Hours: 24S

Students read translations of Arabic literary texts composed by women or dealing with gender and sexuality. Class discussion considers debates in the field about how to analyze these texts in their historical context and in a theoretically grounded manner. Topics addressed include: popular and elite narrative representations of gender and sexuality; pre-Islamic and Abbasid poetry and remarks composed by women, and their transmission in male-authored anthologies; hetero- and homoerotic obscenity and eroticism in Arabic poetry, epistles, and scientific texts; and literary representations of sexual minorities like eunuchs, intersex people, and *mukhannathūn* (people with apparently male biology who dressed and behaved as women, and had a specific social position at certain times).

Recommended Preparation: 4.0 credits in Humanities

Breadth Requirements: Creative and Cultural Representations (1)

NMC358H1 - Gender and Sexuality in Modern Middle Eastern Cultures

Hours: 24L

This course examines questions of gender and sexuality in the broader Middle East (Iran, Turkey, and the Arab world) from the colonial period (19th to early 20th centuries) to the present through readings of religious, cultural, historical, visual, and literary texts. We will begin the course by thinking critically about colonial and Orientalist legacies that continue to structure contemporary debates on representations of women, gender, and sexuality in the Middle East and North Africa. Students will read and analyze a range of primary historical texts written by Middle Eastern women reflecting the ways in which women of different backgrounds (religious, class, urban/rural) and generations have conceptualized and inhabited their gendered and sexual identities. Topics students will explore include the development of modern secular and religious feminist thought; cultural representations of gender, sexuality, and queerness; fictional texts that represent non-normative expressions of gender and sexuality; and critical approaches to theorizing gender and sexuality in the Middle East. All readings are in English translation.

Prerequisite: 3.0 credits in Humanities/BR= 1 or 2

Breadth Requirements: Creative and Cultural Representations (1)

NMC359H1 - Nomads in the Ancient Near East

Hours: 24L

Using ancient archaeological and textual sources as well as modern ethnographies and political theories, this class takes a critical look at the role of mobile populations in Near Eastern history from the fourth to first millennium BCE, assessing modern perspectives as well as the ancient evidence.

Recommended Preparation: [NMC102H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC360H1 - The Archaeology of the Biblical World I: The Bronze Age

Hours: 24L

The archaeology of Syria-Palestine from prehistoric times until the end of the Late Bronze Age (ca. 1200 BCE), with a special emphasis on the development of complex society, and inter-relations with the neighboring regions of Egypt and Syro-Mesopotamia. Attention will also be given to the history of archaeological research in the region, current field techniques and methods of archaeological analysis, and the relationship between archaeological evidence and contemporary written records, including the Hebrew Bible.

Prerequisite: 1.0 credit in Humanities/BR= 1 or 2

Recommended Preparation: [NMC102H1](#)/ [NMC104H1](#)/ [NMC260H1](#)/ [NMC262H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NMC361H1 - The Archaeology of the Biblical World II: The Iron Age

Hours: 24L

The archaeology of Syria-Palestine from the collapse of the Late Bronze Age until the Persian Period, with a special emphasis on the emergence of Israel and the small territorial nation-states of the eastern Mediterranean seaboard. Particular attention will be given to the relationship between the archaeological evidence and contemporary written records, including the Hebrew Bible.

Prerequisite: 1.0 credit in Humanities/BR= 1 or 2

Recommended Preparation: [NMC102H1](#) or [NMC104H1](#) or [NMC260H1](#) or [NMC262H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NMC364H1 - Art and Archaeology of Syria

Hours: 36S

Discover the wonders of Syria's past, from 10,000 year-old burials to the world heritage sites of Palmyra and the Citadel of Aleppo. Explore headless skeletons, royal marriages, desert castles and Roman streetscapes.

Prerequisite: 3.0 credits in any field

Breadth Requirements: Creative and Cultural Representations (1)

NMC365H1 - Women and Gender in Egyptian Archaeology

Hours: 36S

The course explores issues related to gender within the ancient Egyptian context and investigates the activities of women through the study of many different kinds of archaeological and material evidence. We'll build a foundation for this work with an overview of current developments in gender theory and consider their applications for research on ancient Egyptian society and culture. No prior knowledge of theoretical approaches is expected. From this basis, we'll go on to consider how archaeological material can contribute to the understanding of gender roles and examine how excavators may unconsciously impose their own gender perspectives on ancient contexts, creating biased views of ancient societies that become entrenched in scholarly tradition. The same methods of critical analysis will inform our study of women in ancient Egypt, incorporating archaeological data and artifactual material that can inform our understanding of the complex roles that women played in Egyptian culture, society, and religious practice.

Prerequisite: 3.0 credits in BR=1/2/3

Recommended Preparation: NMC101H1 or (NMC343H1/ NMC344H1) or NMC251H1

Breadth Requirements: Society and its Institutions (3)

NMC366H1 - Archaeology of Mesopotamia I: Rise of Civilization

Previous Course Number: NMC363H1

Hours: 36L

A comprehensive survey class on the archaeology of Mesopotamia during prehistoric periods (10,000 – 2300 BC), covering the rise of villages, the Agricultural Revolution, the development of cities, cultic centers, and

complex bureaucracy, and the rise of state entities during the Neolithic, Chalcolithic and Early Bronze Ages. This class will focus on the area of modern-day Iraq but will also consult materials from western Iran, eastern Syria, and southeastern Turkey.

Prerequisite: NMC102H1

Exclusion: NMC363H1

Recommended Preparation: NMC248H1, NMC262H1, NMC266H1

Breadth Requirements: Society and its Institutions (3)

NMC367H1 - Archaeology & Architecture of Egyptian Monasticism

Hours: 24L

Underlines the role of some Egyptian monasteries as active institutions carrying out numerous economic activities, and reveals the forces that enabled their survival and changing function. Exploration of these rich sites of cultural exchange, as manifested in their architecture and religious art and written material.

Recommended Preparation: NMC260H1, NMC262H1, NMC342H1, NMC368H1

Breadth Requirements: Creative and Cultural Representations (1)

NMC368H1 - Coptic Art & Archaeology

Hours: 24L

A survey of Coptic art, archaeology and architecture. The course will cover aspects of the religious, civil and daily life of the Copts: their houses, religious architecture, funerary monuments, art and artefacts

Recommended Preparation: NMC260H1, NMC262H1, NMC289H1

Breadth Requirements: Creative and Cultural Representations (1)

NMC369H1 - Archaeology of Mesopotamia II: States and Empires

Previous Course Number: NMC363H1

Hours: 36L

A comprehensive survey class on the archaeology of Mesopotamia during historic time periods (Sumer, Assyria, and Babylon; 2300 – 333 BC), covering the rise of the Akkadian Empire, the Neo-Sumerian “renaissance” of the Ur III State, Hammurabi's Babylon, the Late Bronze Age under Kassite and Mittani rule, the rise and

dominance of Assyria, and the splendor and fall of Babylon. This class will focus on the area of modern-day Iraq but also will consult materials from western Iran, eastern Syria, and southeastern Turkey.

Prerequisite: [NMC102H1](#)

Exclusion: [NMC363H1](#)

Recommended Preparation: [NMC248H1](#), [NMC262H1](#), [NMC266H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC370H1 - History of Ancient Israel

Hours: 24L

The course is concerned with the political and cultural history of ancient Israel and the Hebrew people from origin stories set in the pre-monarchic period to early Roman Palestine. Israel is the land that bequeathed the Bible, the Jewish people, and hosted the birth of Christianity. Much of its history witnessed hostile interactions with imperial forces, from Babylon to Rome. While the focus is on key people, events, and essential chronology, the course also addresses critical questions concerning the use of sources (primary among which is the Hebrew Bible/Old Testament); differences between ancient history-writing and modern history-writing; and the assumptions and methods involved in reconstructing historical events.

Prerequisite: [NMC104H1](#), [NMC252H1](#)

Recommended Preparation: [NMC101H1](#), [NMC102H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC371H1 - Topics in Hebrew Bible

Hours: 24S

This course will cover various aspects of the Hebrew Bible, from the study of a book (e.g., Genesis), a group of books (e.g., the Prophetic books) to a topic (e.g., women in the Bible).

Prerequisite: 2.0 credits at the 200+-level

Recommended Preparation: [NMC252H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NMC372H1 - Islam and Muslims in the Balkans

Previous Course Number: HIS306H1

Hours: 24L

The Balkans has been in contact with Islam and inhabited by Muslims for six centuries. Nowadays it is the home of over eight million Muslims of various ethnic backgrounds who constitute the second largest religious group in the region. This course examines the history of Islam, Muslims, and Muslim culture in the Balkans from the Ottoman conquest in the fourteenth century until the present day while placing it in a wider transregional context. Topics covered include formation of Muslim communities, Sufi groups, the Muslims and the Balkan national imagination, responses to modernity, Muslims as minorities, Muslim experiences in communist states, and the breakup of Yugoslavia.

Prerequisite: Any of [NMC103H1](#)/ [NMC273Y1](#)/

[NMC278H1](#)/ [NMC377Y1](#)/ [NMC355H1](#)/ [NMC386H1](#)

Exclusion: [HIS306H1](#)

Breadth Requirements: Society and its Institutions (3)

NMC373H1 - Modern Iran

Hours: 24L

This course covers the history of Iran from the early modern period to the present. Following an overview of the Safavid revolution and the empire it created (1501–1722), we examine the political upheavals experienced in post-Safavid Iran throughout the 18th century that culminated in the rise of the Qajar polity. This review of early modern Iranian history will set the stage for our investigation of the defining moments in the modern history of Iran, including the Constitutional Revolution (1905–1911), the subsequent toppling of the Qajar dynasty, and the establishment of Pahlavi rule under Reza Shah. We then focus on the events leading up to and including the Islamic Revolution of 1979 and the making of the Islamic Republic. The course concludes with an exploration of society and culture in contemporary Iran.

Recommended Preparation: [NMC348Y1](#)

Breadth Requirements: Society and its Institutions (3)

NMC375H1 - Conversion to Islam in Medieval History

Hours: 24S

How did Islam spread in the world? The question has puzzled historians for years. For centuries after the rise of Islam, much of the Middle East was still largely comprised of diverse communities of non-Muslims. This course on the complex history of “Islamization” examines when, how, and why various societies became majority Muslim, through a close look at case studies and sources from across the medieval world including Spain, North Africa, Central Asia and India. Topics covered include religious tolerance, polemic, cultural assimilation, minority

identities, interreligious marriages, children of mixed families, and the contentious issues of apostasy and forced conversion.

Prerequisite: NMC103H1 or NMC273Y1

Breadth Requirements: Society and its Institutions (3)

NMC376H1 - History of Islamic Spain and North Africa (640-1492)

Hours: 24L

Muslim conquest of North Africa and Spain, history of Spain under Muslim rule to 1492. Attention given to institutional and cultural development, Islamic Spain's relations with the Islamic east and neighbours in Europe.

Prerequisite: NMC273Y1

Breadth Requirements: Society and its Institutions (3)

NMC378H1 - Modern Arab History

Hours: 36L

A thematic treatment of the Arab lands of the Middle East and North Africa from 1700 onward, focusing on the Ottoman and colonial periods.

Prerequisite: NMC278H1 and permission of instructor

Breadth Requirements: Society and its Institutions (3)

NMC379H1 - Capital, Technology, and Utopia in the Modern Middle East

Hours: 12L/12S

How does the workings of capital intersect with technological innovation and political visions in the modern Middle East? This course approaches this question through critical reading in the histories of capitalism, crisis, science, politics, and intersections between cultural history and technology studies using the Middle East as a starting point for the study of global phenomena. We will examine the ways in which constructions like race and ethnicity, gender, and the human/non-human divide have mediated the social and spatial expansion of capital in the region, especially through technological infrastructure and utopias between the late 18th and the 21st centuries.

Prerequisite: 0.5 credit in NMC/HIS/HPS at the 200+ level. Students who do not meet these prerequisites are encouraged to contact the Department.

Breadth Requirements: Society and its Institutions (3)

NMC380H1 - Religion in the Ancient Near East

Hours: 48S

Primary sources from Mesopotamia, Syria and the Levant reveal profound awareness of the human condition. What do they tell us about religion in the ancient Near East, and why do Judaism, Christianity and Islam share some stories? Takes a critical approach to the ways we read texts and reconstruct beliefs.

Prerequisite: 3.0 credits in any field

Breadth Requirements: Thought, Belief and Behaviour (2)

NMC381H1 - Modern Islamic Thought

Hours: 24L

Survey of major intellectual trends in the Islamic tradition, particularly those identified with Middle Eastern Muslim thinkers, from the early 19th century to the present. Topics include reformism, modernism, hermeneutics, feminism, Islamism, and liberal and progressive trends in contemporary Muslim thought. Readings in English translation.

Prerequisite: NMC103H1

Recommended Preparation: NMC278H1, NMC283Y1, RLG204Y1/ RLG204H1

Breadth Requirements: Thought, Belief and Behaviour (2)

NMC384H1 - Marking Time: Legal Issues and Personal Status in Judaism

Hours: 24S

This course will examine certain aspects of status and family law in Judaism, as well as Zoroastrianism, Eastern Christianity, and Islam. We will review some literature in legal theory to test its applicability to religious-based law. Our main topics include virginity (marital age, proof of virginity or its absence, rape or seduction of virgins, economics and theology of virginity); menstrual laws (impurity, punishment, sexuality, purification); mysticism (practitioners, purity requirements, theology); and sexuality (marriageability, prohibited partners, sex acts). Sectarian approaches to these legal issues will be examined, for example, how biblical law is interpreted in Qumran, by the rabbis, and how these topics are addressed by Zoroastrian law, the Eastern Church Fathers and the Four Schools in Islamic law.

Prerequisite: Completion of 4.0 credits in Humanities/BR=1 or 2
Breadth Requirements: Thought, Belief and Behaviour (2)

JMH385H1 - Islamic Law and the Modern State

Previous Course Number: NMC385H1
Hours: 24L

What happens to the shari'a when it is applied by modern nation-states? This course introduces students to the way states, with Muslim majorities and minorities, from Canada to Malaysia, passing by Nigeria, Palestine, Iran, and Pakistan approach, accommodate, or apply Islamic law. We also discuss the way Muslims, lay and scholarly, talk about, practice, and follow Islamic law under modern states. Based on an examination of law in practice, we will be able to theorize modern transformations of the shari'a and provincialize the modern state and its legal regime.

Prerequisite: NMC103H1/ RLG204H1
Breadth Requirements: Thought, Belief and Behaviour (2)

NMC386H1 - Muslims, Christians, and Jews in the Ottoman Empire

Hours: 24L

Although ruled by a Muslim dynasty and frequently characterized as an Islamic empire, the Ottoman state was inhabited by diverse religious and ethnic populations, many of them non-Muslim. This course examines how the Ottoman Empire governed and organized its subjects, Muslims and non-Muslims alike, of various ethnic backgrounds. It explores the relations among these communities and their interactions with the state, raising questions about tolerance, co-existence, conflict, loyalty, and identity. By looking into a selection of topics from the wide territorial span of the Ottoman Empire (Anatolia, the Balkans, and the Arab Middle East) the course seeks to provide insights into the organization, functioning, and transformation of a multi-confessional state and society in the premodern and modern eras.

Recommended Preparation: NMC241H1, NMC278H1, NMC355H1, NMC377Y1
Breadth Requirements: Society and its Institutions (3)

NMC387H1 - Women, Gender, and Sexuality in the Ottoman Empire

Hours: 24L

The course explores key aspects of the history of women, gender, and sexuality in the Ottoman Empire from the early fourteenth century until the empire's collapse over the course of the First World War. It examines the experiences of women of various social and religious backgrounds, and the transformation of concepts and expressions of sexuality. Topics include gender and law, the harem as a social and political institution, discourses of sexuality, reproductive politics, women's movements, labour history, fashion, and gendered experiences of displacement, violence, and war.

Prerequisite: 2.0 credits at the 200+-level
Recommended Preparation: At least 0.5 credits from the following courses: NMC278H1, NMC355H1, NMC357H1, NMC358H1, NMC386H1, NMC388H1, and NMC389H1
Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

NMC388H1 - The Rise of the Ottomans

Previous Course Number: NMC377Y1
Hours: 24L

A survey of the Ottoman Turks from their late 13th–early 14th century origins on the frontiers of the Seljuk, Mongol, and Byzantine empires to their establishment of an Islamic empire. Topics include the principalities known as *beyliks* that came into being in Anatolia as the above empires declined, the nature of the early Ottoman *beylik*, conquests in the Balkans, the destruction of the early Ottoman state by Timur and its rebirth, and Mehmed II's conquest of Constantinople. Coverage includes Ottoman institutions, economy, society, and culture.

Exclusion: NMC377Y1
Recommended Preparation: NMC280H1
Breadth Requirements: Society and its Institutions (3)

NMC389H1 - The Ottoman Empire in its Classical Age

Previous Course Number: NMC377Y1
Hours: 24L

A survey of the Ottoman Empire in the 16th and 17th centuries. From the victory by Selim I the Grim over Safavid Iran and conquest of Syria and Egypt to the resplendent age of Süleyman the Magnificent to the internal and external challenges that forced transformation or decline. Topics include wars in Europe, the Mediterranean and Black Seas, and with Iran; internally, the rise of the harem and "sultanate of the women," rebellions in Anatolia, military reform, religious controversies, and art and architecture. The endpoint is the Treaty of Karlowitz (1699) when the expansion of the empire ended.

Exclusion: NMC377Y1

Recommended Preparation: NMC274H1, NMC388H1

Breadth Requirements: Society and its Institutions (3)

NMC394H1 - Persianate Art and Architecture

Hours: 24L

Covering art and material culture in the eastern Islamic lands from the late 13th century to the modern period. Objects from the collections of Islamic art in the Royal Ontario Museum will also be studied.

Prerequisite: 1.0 credit from FAH or NMC in medieval art/history/culture

Breadth Requirements: Creative and Cultural Representations (1)

NMC395H1 - Iconography of the Art and Material Culture of the Islamic World

Hours: 24S

The art and material culture of the Islamic world is rich in iconography - from Persian paintings to Afghan war rugs - with complex layers of meaning that are not necessarily understood at first glance. Such imagery can be comprehended through numerous lenses, from pre-Islamic concepts and literary themes to politically-driven motivations or religious beliefs and practices. Through a series of case studies of examples of painting, ceramics, metalwork, textiles, and contemporary art, the course examines the meanings behind the iconography on objects from across the Middle East and Central Asia, dating from the medieval period to the present day.

Breadth Requirements: Creative and Cultural Representations (1)

NMC396H1 - The Art of the Qur'an

Hours: 24L

The holy Qur'an, believed by Muslims to be the Word of God, has been a source of creative and artistic inspiration for Muslims around the world and through the ages. The language and interpretation of the Qur'an have engaged the minds of artists, craftspeople, and patrons of the arts as much as the minds of theologians and jurists. This course explores expressions of the Qur'an through a wide range of visual and material culture—from illuminated manuscripts to the use of the sacred text on coins, amulets, architecture, ceramics, metalwork, textiles, and modern and contemporary works of art. The course will

include visits to the Royal Ontario Museum to examine Qur'ans in its Islamic collection.

Prerequisite: Completion of 4.0 credits in Humanities/BR=1 or 2

Recommended Preparation: Knowledge of Arabic or the Arabic script beneficial though not essential.

Breadth Requirements: Creative and Cultural Representations (1)

NMC445H1 - Sacred versus Secular Space: Mesopotamian Architecture in Context

Hours: 36L

When and where did the first buildings come about? Learn how some 10,000 years ago, the first permanent dwellings were constructed in the ancient Near East. Discover how the agricultural revolution and the domestication of animals resulted in the formation of villages during the Neolithic period (9,000–5,000 BC) with house types that grew in size and complexity. Observe how religious architecture evolved from simple, household-based cultic installations to large public complexes that dominated cities during the Uruk and Early Dynastic periods (4,000–2,300 BC). See how the rise and manifestation of powerful political leaders is reflected in the development, layout and decoration of their palaces. Beyond a typological approach to architecture, this course will also address challenges created by environmental conditions and limitations in available building materials. While focusing on Mesopotamia and Syria, it will also incorporate examples from Iran, Anatolia and the Levant.

Prerequisite: Students in other areas of study are encouraged to contact the Department.

Recommended Preparation: NMC260H1 or NMC363H1

Breadth Requirements: Society and its Institutions (3)

NMC446H1 - The Babylonian City

Hours: 24L

Ancient Mesopotamia is well known as the birthplace of some of the world's earliest cities. This course investigates the physical form of the city in 2nd and 1st millennium BC Babylonia (southern Mesopotamia) as the setting for the daily activities of its inhabitants. It examines the key components of the Babylonian city: houses; neighbourhoods and city districts; palaces; temples and ziggurats; streets and alleys; shops and markets; city walls, gates, and moats, as well as canals, orchards and gardens. The course emphasizes the reading and critical evaluation of written sources in translation, including selected royal inscriptions, topographical texts, and legal and administrative documents. It also considers ways of

approaching the study of ancient cities and addresses the integration of textual and archaeological evidence. The focus is on investigating the relationship between Babylonian city form and contemporary social structure.

Prerequisite: 9.0 credits in any field

Recommended Preparation: NMC102H1, NMC346H1/
NMC347H1

Breadth Requirements: Society and its Institutions (3)

NMC447H1 - The Neo-Assyrian Empire

Hours: 24L

The course offers a detailed introduction to the Neo-Assyrian empire and how it functioned, based on study of a representative selection of written sources (in translation). It examines Assyrian kingship, imperial administration, and daily life as reflected in the texts, including the royal inscriptions, official correspondence, astrological reports, and everyday legal and administrative documents. The course studies a cross-section of Assyrian society taking into account various perspectives, from the king and his highest officials and court scholars to the lowest-ranking subjects and deportees. It also investigates the economic basis of the Assyrian empire, including taxation and tribute, booty from military conquest, specialist craft production, and agriculture. The course emphasizes the historical evaluation and interpretation of the primary written sources.

Prerequisite: 9.0 credits in any field

Recommended Preparation: NMC102H1, NMC346H1/
NMC347H1

Breadth Requirements: Society and its Institutions (3)

NMC449H1 - Mesopotamian Society and Economy

Hours: 24L

This course presents a thematic overview of Mesopotamian society and economy from the third millennium to the 1st millennium BC. The emphasis is on critical evaluation of the primary sources (in translation), such as everyday legal contracts and the so-called "Laws". It also explores different approaches to the study of ancient social structures and economies. Topics include: freedom, slavery, and social class; ethnicity; women, children, and the elderly; marriage, family, and household; crime and punishment, and the judicial system; the priesthood; palace and temple, private and state; merchants and trade; money, markets, and prices, and the question of whether there was a market economy; labour and wages; land ownership and tenure, and wealth and social inequality.

Prerequisite: 9.0 credits in any field

Recommended Preparation: NMC102H1, NMC346H1/
NMC347H1

Breadth Requirements: Society and its Institutions (3)

NMC450H1 - Research Seminar on Ancient Jewish Literature

Hours: 24S

A seminar focusing on the critical analysis of the Hebrew Bible and related ancient Jewish texts. Literary genre and critical topics will vary according to instructor's research interests. Focus will be given to developing research skills by working with accepted critical methodologies. Not eligible for CR/NCR option.

Prerequisite: Permission of the instructor.

Breadth Requirements: Creative and Cultural Representations (1)

NMC452H1 - Iranian Modernity

Hours: 36S

This course explores competing conceptions of Iranian modernity within a comparative historical framework on "multiple modernities." A major theme is the exploration of the temporality and historicity in discussions of Iranian modernity.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Society and its Institutions (3)

NMC454H1 - Mapping the Ottoman World

Hours: 24S

This highly visual course explores the history of cartography in the Ottoman World between the 15th and 20th centuries. Focusing on the social life of images, it examines how the Ottomans and their rivals governed the territory through navigation, astronomy, architecture, property, and geographical surveys. From religious to scientific visualizations, maps make history. Yet not long ago, they were rare and strange technical objects, and their value as historical source has shifted again and again. Each week illuminates moments of this story by centering on a topic including empire, image, boundaries, print, reform, visualization, infrastructure, spatial literacy, map wars, and verticality.

Prerequisite: 1.0 credit in NMC/HIS/HPS at the 200+ level. Students who do not meet these prerequisites are

encouraged to contact the Department.

Exclusion: NMC471H1 (Advanced Topics in Near and Middle Eastern Civilizations: Mapping the Ottoman World), offered in Fall 2021

Breadth Requirements: Society and its Institutions (3)

NMC460H1 - The Archaeology of Borders in Egypt and the Ancient Near East

Hours: 24S

Borders impact all kinds of aspects of our daily lives, and the same was true for peoples in the ancient Near East. This course will analyze premodern societies from the perspective of these boundaries, from “natural” geographic boundaries to the strict registers of action that define the aesthetics of Pharaonic and Near Eastern art. Using cutting edge theoretical approaches developed by anthropologists, geographers, art historians, and archaeologists to study modern (and ancient) border-making, this course will investigate Pharaonic and Near Eastern societies through the prism of the political, cultural, administrative, and economic boundaries they created and maintained.

Prerequisite: 1.0 credit at the 300+-level in NMC or ARH archaeology courses

Breadth Requirements: Society and its Institutions (3)

NMC461H1 - The History and Archaeology of the Horn of Africa and South Arabia

Previous Course Number: NMC461Y1

Hours: 24S

The cultures of the Horn of Africa and South West Arabia, separated by the Red Sea, have long been intertwined. This course explores the history and archaeology from the emergence of the hominids in Ethiopia, to the rise of the Sabean and Axumite kingdoms, until the Middle Ages, highlighting their interactions and the roles they played in the development of their respected cultures.

Prerequisite: NMC260H1 or NMC262H1

Exclusion: NMC461Y1

Breadth Requirements: Society and its Institutions (3)

NMC462H1 - Polarized-light Microscopy in Archaeology I: Foundations

Hours: 24L/24P

This course provides students with training in the use of polarized-light microscopy in the examination of archaeological materials, particularly pottery (ceramic petrology). Students will apply the knowledge they gain from lectures to hands-on work with materials in the lab, covering instruction in crystallography, optics, mineralogy, lithology, and other aspects of the petrology of ceramics and other materials. Labs comprise eight three-hour sessions during the term, working with the polarized-light microscope to examine and analyze thin-sections. No prior knowledge of geology is required. Students should plan to take NMC470H1 Polarized-light Microscopy in Archaeology II: Applications, in the following term to complete their training.

Prerequisite: NMC264H1 or permission of the instructor.

Exclusion: NMC462Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

NMC463H1 - Warfare: The Archaeology of Conflict in the Ancient Near East

Hours: 36L

When did humans start fighting each other, and how far back can we trace the history of warfare? This course investigates the origin, nature, and manifestation of military conflicts in the ancient Near East and studies their impact on political, economic, and social developments in the region. Following a review of the relevant terminology (e.g., “warfare” vs “skirmish”) in archaeological literature, we will investigate the archaeological and historical data for a time span that extends from 9,000 to 300 BC. Evidence from archaeological sites (notably violent destructions of ancient settlements) will be compared with available artistic representations of warfare in sculpture, reliefs, inlays, and glyptics, complemented by textual accounts. While the course focuses on Mesopotamia, evidence from Syria, Turkey, Iran, the Levant, and Egypt will also be included.

Prerequisite: NMC260H1

Recommended Preparation: NMC102H1, NMC363H1

Breadth Requirements: Society and its Institutions (3)

NMC464H1 - The Archaeology of Stuff at the ROM

Previous Course Number: NMC369Y1

Hours: 36P

Hands-on analysis of actual materials from the Middle and Near East, including Egypt, Iraq, Iran, Syria, and Turkey. Students learn the techniques by which archaeologists understand objects from the past: what they are made of,

how they were made, and what they reveal about the people who made them.

Prerequisite: [NMC264H1](#)

Exclusion: [NMC369Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NMC465H1 - Ceramic Analysis

Hours: 6P/36S

A survey of methods of classification and analysis (form, fabric and style) involved in the study of archaeological ceramics, and the use of ceramics to infer patterns of production, distribution, and social organization; linking research questions with appropriate analytical techniques.

Prerequisite: 9.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

NMC466H1 - Near Eastern Ceramics

Hours: 36S

An introduction to the basic corpus of Near Eastern ceramics, from the invention of pottery production in the Neolithic until the Persian period, utilizing existing collections at the University and in the Royal Ontario Museum.

Prerequisite: 9.0 credits

Recommended Preparation: [ARH312Y1](#)/ [NMC264H1](#)/ [NMC360H1](#)/ [NMC361H1](#)/ [NMC464H1](#)/ [NMC465H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NMC467H1 - Seminar in Egyptian Archaeology I

Hours: 24S

Seminar focuses on the social and cultural development of Egypt from the Predynastic Period through the Middle Kingdom, engaging with major theories regarding social complexity, state formation, urbanism, social organization, and regionalism. An independent research project and hands-on experience with artifacts at the ROM are important features of the course.

Prerequisite: [NMC101H1](#) or [NMC343H1](#). Students who do not meet these prerequisites are encouraged to contact the Department.

Breadth Requirements: Creative and Cultural Representations (1)

NMC468H1 - Seminar in Egyptian Archaeology II

Hours: 24S

Seminar focuses on the social and cultural development of Egypt from the Middle Kingdom through the Ptolemaic Period, engaging with major theories regarding urbanism, ethnicity, core-periphery relationships, cultural interaction, and social organization. An independent research project and hands-on experience with artifacts at the ROM are important features of the course.

Prerequisite: [NMC101H1](#) or [NMC344H1](#). Students who do not meet these prerequisites are encouraged to contact the Department.

Breadth Requirements: Creative and Cultural Representations (1)

NMC469Y1 - Medieval Middle Eastern Ceramics

Hours: 72S

An introduction to the ceramics of the Middle or Near East from the time of Alexander until recent times. A particular emphasis will be the elite glazed wares of the mediaeval and Islamic periods. Apart from providing a history of the production of ceramics and their social and archaeological context, this course is intended to train archaeologists and art-historians in the fundamental field recognition and identification of the various types and their production origins, and the course will rely heavily on the collections of the ROM.

Prerequisite: [NMC260H1](#), [NMC262H1](#), and at least one other 0.5 credit 300- or 400-level course in archaeological materials

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

NMC470H1 - Polarized-light Microscopy in Archaeology II: Applications

Previous Course Number: NMC462Y1

Hours: 24L/24P

This course explores further applications of polarized-light microscopy in the examination of archaeological materials, particularly pottery (ceramic petrology). The focus is on foundational research and case-studies of materials from around the world with particular attention to

material culture from the Middle East, Central America, and East Asia, where University of Toronto researchers have worked, ranging in date from the Neolithic period to the modern day. Class and lab discussions will include critical examination of the application and integration of ceramic petrology in archaeological research design and how petrology can address relevant research questions successfully. Labs comprise eight three-hour sessions during the term, working with the polarized-light microscope to examine and analyze thin-sections.

Prerequisite: NMC462H1

Exclusion: NMC462Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

NMC471H1 - Advanced Topics in Near and Middle Eastern Civilizations

Hours: 24S

An advanced seminar organized around readings on a topic selected by the instructor.

Breadth Requirements: Society and its Institutions (3)

NMC472H1 - Theory & Method in Middle East Studies

Hours: 24S

Examines current theoretical and methodological trends in the study of the Near/Middle East. A seminar course, it consists of presentations, discussions, lectures, guest speakers, and documentaries. No previous knowledge of methodology required. Special attention will be paid to the politics, culture, political economy, gender, and ethics of various research practices. Intended for 4th year students only.

Prerequisite: Permission of the instructor

Breadth Requirements: Society and its Institutions (3)

NMC473H1 - Intellectuals of the Modern Arab World

Hours: 24S

The course is designed to re-examine the role of intellectuals in the Arab world and political events that shaped their thinking. It introduces the life and thought of some leading thinkers of the Arab world and relates their thought to the lived experience of political, social, economic and cultural change in the Middle East.

Prerequisite: 1.0 credit from NMC278H1, NMC377Y1, NMC378H1

Recommended Preparation: Fluency in reading Arabic

Breadth Requirements: Society and its Institutions (3)

NMC474H1 - The Archaeology of Death

Hours: 36S

This is an intensive education in the archaeology of death. Working as a study group, the participants in this class will examine in detail the primary archaeological data for mortuary practices in the third millennium in the Big Bend region of the Euphrates River.

Prerequisite: ANT200Y1 or NMC260H1 or NMC262H1

Recommended Preparation: ANT334H1

Breadth Requirements: Creative and Cultural Representations (1)

NMC475H1 - Orientalism & Occidentalism

Hours: 24S

This course probes the contemporaneous formation of modern Oriental Studies in Europe and the emergence of discourses on Europe (Ifrañj/Farang) in the Middle East from the eighteenth century to the present. Special emphasis will be devoted to encounters between scholars in Western Europe, Iran, India, and the Ottoman Empire. This seminar-style course explains that Orientals gazed and returned the gaze, and in the process of cultural looking, they, like their Occidental counterparts, exoticized and eroticized the Farangi-Other. In the interplay of looks between Orientals and Occidentals, there was no steady position of spectatorship, no objective observer, and no aperspectival position. Intended for upper year students.

Prerequisite: Permission of the instructor.

Breadth Requirements: Society and its Institutions (3)

NMC476H1 - Politics of Archaeology in the Modern Middle East

Hours: 24S

This course examines the role nineteenth and twentieth-century archaeology played in Middle Eastern politics, the culture of colonialism and in nationalist struggles. The course will first familiarize the students with the diplomatic and intellectual context of the formation of archaeology as a field of study in Europe and analyse the role archaeology played in the production of knowledge about the Middle East. Next, the course will examine the

archaeological practices on the ground (and underground) and inquire what happens in the contact zone between foreign and local archaeologists. Finally, we will trace the ways in which emergent nationalist discourse challenge, appropriate and imitate the historical narratives of Western archaeology.

Prerequisite: Permission of instructor is required.

Breadth Requirements: Society and its Institutions (3)

NMC477H1 - Modern Turkey

Hours: 24S

The course examines the history of modern Turkey from the beginning of the 20th century until the present day. Topics include transition from empire to nation-state; the establishment of the Turkish republic; the Kemalist reforms and legacy; nationalism and nation-building; Islam and politics; gender and sexuality; as well as recent political, social, and cultural developments. The course seeks to situate the history of Turkey in a broader regional context and introduces students to some historiographical debates. In seminar discussions, students are encouraged to explore topics from a critical post-nationalist perspective and to think about current events in a historical context.

Recommended Preparation: [NMC278H1](#), [NMC355H1](#), or permission of instructor

Breadth Requirements: Society and its Institutions (3)

NMC478H1 - Modern Arab Societies

Hours: 24S

A weekly seminar built around thematic readings of social and economic history of the modern Arab world. Sometimes, the course is geographically extensive, encompassing the predominantly Arabic-speaking lands of North Africa and the Middle East from Morocco in the west to Iraq in the east. At other times, the course focuses on a more narrowly defined geographic region—one country or a group of countries in the Arabic-speaking lands. Readings and discussions emphasize the experiences of broad sectors of the population, not just of elites. This framework of “history from below” also invites scrutiny of historically-marginalized populations (“subalterns”), or at least of silences in the literature about these populations.

Prerequisite: [NMC378H1](#). Students who do not meet the prerequisite are encouraged to contact the Department.

Breadth Requirements: Society and its Institutions (3)

NMC479H1 - Nationalism in the Arab World

Hours: 24S

A seminar that critically examines the types and varieties of national expression in Arab societies of the Middle East and North Africa, through a reading of common texts and students' individual research projects.

Prerequisite: [NMC378H1](#) and permission of instructor

Breadth Requirements: Society and its Institutions (3)

NMC480H1 - Structural Development of the Iranian Languages

Previous Course Number: NML463H1

Hours: 24S

This interdisciplinary course focuses on the structural development and contrastive analysis of Iranian languages including Dari, Farsi, Tajiki, Balochi, Kurdish, Pashto, and Zazaki. The lectures begin with an overview of ancient and medieval Iranian languages and then describe modern Iranian languages' historical and structural development. The course also examines the role of language in maintaining cultural identity and demonstrates the type and mechanism of the development of Iranian languages. The lecture materials are based on texts and articles written by theoretical linguists, sociolinguists, typologists, and descriptive and historical linguists.

Prerequisite: Completion of 9.0 credits in BR= 1/ BR= 2

Exclusion: [NML463H1](#)

Recommended Preparation: 1.0 credit from ([LIN232H1](#)/ [LIN232H5](#)), ([LIN333H1](#)/ [LIN231H5](#)), ([LIN362H1](#)/ [LIN360H5](#))

Breadth Requirements: Creative and Cultural Representations (1)

NMC484H1 - Gender Issues in Jewish Law

Hours: 36S

Among the topics addressed in this course in various years are the requirement for women divorced or widowed (either from betrothal or marriage) to wait three months before remarriage to determine paternity or for pregnant or nursing women to protect the fetus or infant; legal disabilities for women in marriage and divorce (consent, unilateral acquisition, power differentials, exit options); legal status according to age (fetus, infant, before and after age six, approaching legal majority, legal majority, anomalies); sexuality (age, sexual acts and their legal

repercussions, prohibitions, consent, intergenerational sexual connections, homosexuality); rabbinic ordination of women in the various streams of Judaism; and abortion (contraception, status of embryo or fetus, viability, reasons). These issues will be discussed in terms of gender and modern law.

Prerequisite: Completion of 9.0 credits in Humanities/BR=1 or 2

Breadth Requirements: Thought, Belief and Behaviour (2)

NMC491H1 - Mesopotamian Material Culture: Art versus Artifact

Hours: 36L

What is an artifact, and to what degree does it represent art? At what point in the evolution of ancient human society does art emerge? What does it express, what is its purpose, and who are the agents that create and propagate it? This course addresses these questions by examining artifacts from the Palaeolithic to the Iron Age (15,000-300 BC). Students will learn to categorize works of ancient Near Eastern art using descriptive (materials, size, object type) as well as interpretive (iconography, style, themes) parameters, in order to engage critically with art-historical studies. Techniques of reading visual narratives will be exemplified by discussing selected examples in detail, showing ways of identifying a messenger and the message that they are trying to convey, the selective inclusion or omission of elements within a visual narrative, and the possible propagandistic intent in doing so.

Prerequisite: Permission of the instructor

Recommended Preparation: NMC260H1 or NMC363H1

Breadth Requirements: Creative and Cultural Representations (1)

Research Courses

NMC299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

NMC299H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

NMC398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

NMC399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

NMC495Y1 - Independent Studies

The student must obtain the consent of an appropriate full-time NMC faculty member to supervise the proposed topic, which is subject to approval by the Associate Chair, Undergraduate. The course application form is available from the NMC Undergraduate Administrator. Not eligible for CR/NCR option.

Prerequisite: Permission of the Department

NMC496H1 - Independent Studies

The student must obtain the consent of an appropriate full-time NMC faculty member to supervise the proposed topic, which is subject to approval by the Associate Chair, Undergraduate. The course application form is available from the NMC Undergraduate Administrator. Not eligible for CR/NCR option.

Prerequisite: Permission of the Department

NMC497H1 - Independent Studies

The student must obtain the consent of an appropriate full-time NMC faculty member to supervise the proposed topic, which is subject to approval by the Associate Chair, Undergraduate. The course application form is available from the NMC Undergraduate Administrator. Not eligible for CR/NCR option.

Prerequisite: Permission of the Department

NMC499Y1 - Senior Thesis

A 40-60 page (15,000-20,000 word) research paper (100% of the final mark) written under the supervision of a full-time NMC faculty member. Not eligible for CR/NCR option.

Prerequisite: 4th year status in NMC Specialist program; supervisor's approval; departmental approval.

Exclusion: NMC495Y1/ NMC496H1/ NMC497H1 may not be taken in the same session

Language and Literature Courses

NML110Y1 - Elementary Standard Arabic

Hours: 96L/24T

This course is designed for students with no prior knowledge of Arabic. It places equal emphasis on the development of all language skills: reading, writing, listening, and speaking. The learning philosophy underlying this approach is that proficiency in a foreign language is best achieved through consistent, deliberate, and systematic practice. From the outset, students are strongly encouraged to develop the habit of consistently practicing learned material.

Prerequisite: Priority enrollment will be given to declared NMC majors/specialists.

Exclusion: Native speakers/ NML210Y1

Breadth Requirements: Creative and Cultural Representations (1)

NML155H1 - Elementary Modern Hebrew I

Hours: 48L

See MHB155H1 in Religion.

NML156H1 - Elementary Modern Hebrew II

Hours: 48L

See MHB156H1 in Religion.

NML210Y1 - Intermediate Standard Arabic I

Previous Course Number: NML211Y1

Hours: 96L/24T

This course assumes active knowledge of the content covered in NML110Y. It places equal emphasis on the development of all language skills. As the course progresses, students are introduced to the fundamentals of Arabic morphology and syntax. This is achieved through analysis of texts covering a wide range of topics. By the end of the course, students are expected to achieve upper intermediate level of proficiency.

Prerequisite: NML110Y1 or permission of the instructor.

Exclusion: Native speaker. Priority enrollment will be given to declared NMC majors/specialists.

Breadth Requirements: Creative and Cultural Representations (1)

NML220Y1 - Introductory Aramaic

Hours: 72S

Introduction to Aramaic grammar. Readings from biblical Aramaic.

Prerequisite: NML250Y1

Breadth Requirements: Creative and Cultural Representations (1)

NML230H1 - Elementary Coptic I

Hours: 48S

Introduces the student to the last stage of the Egyptian language, written mostly in Greek characters. The course will first concentrate on the grammar of the language and go on to read short texts.

Breadth Requirements: Creative and Cultural Representations (1)

NML231H1 - Elementary Coptic II

Hours: 48S

A continuation of [NML230H1](#).

Breadth Requirements: Creative and Cultural Representations (1)

NML240Y1 - Introduction to Middle Egyptian

Hours: 72S

This course introduces students to the hieroglyphic script and the classical form of the Ancient Egyptian language. After the basic elements of grammar are mastered, the class will begin reading simple hieroglyphic texts.

Breadth Requirements: Creative and Cultural Representations (1)

NML250Y1 - Introductory Biblical Hebrew

Hours: 24T/72S

An introduction to biblical Hebrew prose. Grammar and selected texts. For students with no previous knowledge of Hebrew.

Exclusion: Those who have completed Grade 8 Hebrew (or Grade 6 in Israel)

Breadth Requirements: Creative and Cultural Representations (1)

NML255H1 - Intermediate Modern Hebrew I

Hours: 48L

Intensive study of written and spoken Hebrew.

Prerequisite: [MHB156H1](#)/ [NML156H1](#)

Exclusion: Those who have completed Grade 8 Hebrew (or Ulpan level 2 in Israel), [MHB255H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NML256H1 - Intermediate Modern Hebrew II

Hours: 48L

Continued intensive study of written and spoken Hebrew.

Prerequisite: [NML255H1](#)/ [MHB255H1](#)

Exclusion: Those who have completed Grade 8 Hebrew (or Ulpan level 2 in Israel), [MHB256H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NML260Y1 - Introductory Persian

Hours: 72L/24T

This course is for students who have minimal or no prior knowledge of Persian focusing on reading, writing and conversation. Students start by learning how to write and pronounce the sound and alphabet, how to connect letters to form basic vocabulary in Persian in order to express basic ideas orally and in writing; then they develop their language comprehension through expanding their vocabulary and grammar. By the end of the course, students' skills in listening, speaking, reading, and writing in Persian improves and they should be able to read, write and translate sentences in Persian at intermediate low level.

Exclusion: Native speakers, [PRS210Y5](#), [PRS210H5](#), [PRS211H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

NML270Y1 - Introductory Turkish

Hours: 96L

This course is designed to provide an introduction to Turkish for learners with no previous experience with the language. A variety of speaking, listening, reading, and writing activities will be included to develop both spoken and written language skills. By the end of the course, students will be able to carry out basic conversations in Turkish in everyday social encounters, have a grasp of the basics of the Turkish grammar, and understand elementary texts such as simple excerpts from news articles or literary works. They will also have gained a basic understanding of the cultural contexts in which Turkish is spoken.

Exclusion: Native speakers

Breadth Requirements: Creative and Cultural Representations (1)

NML305Y1 - Introduction to Akkadian

Hours: 48S

Introduction to Old Babylonian. Grammar and the reading of selected texts.

Breadth Requirements: Creative and Cultural Representations (1)

NML310Y1 - Intermediate Standard Arabic II

Hours: 96L/24T

This course assumes active knowledge of the content covered in [NML210Y1](#). As the course progresses, students are introduced to increasingly complex morphological and syntactic patterns of Arabic. This is achieved through analysis of texts covering a wide range of genres. By the end of the course, students are expected to achieve advanced level of proficiency.

Prerequisite: [NML210Y1](#) or permission of the instructor.

Exclusion: Native speakers. Priority enrollment will be given to declared NMC majors/specialists.

Breadth Requirements: Creative and Cultural Representations (1)

NML320H1 - Targum - Aramaic Bible Translations

Hours: 36S

This course is an intensive study of various Aramaic Bible translations (Targumim) to the Pentateuch: Onkelos, Pseudo-Jonathan, Neophyti, Samaritan and Syriac (both transliterated into Hebrew letters), and Fragment Targumim. A comparative study of the Targumim will be made in reference to vocabulary, syntax, verb usage, and translation strategies. We will address their relationship to the Palestinian midrashim. Students will learn to use the online Comprehensive Aramaic Lexicon and the relevant dictionaries and grammars. The texts studied will be from legal sections of the Pentateuch, generally from Deuteronomy on levirate marriage or war captives, Exodus on abortion and personal injury, as well as narrative sections from Genesis such as the Garden of Eden, the binding of Isaac, and the accounts of the Patriarchs.

Prerequisite: Intermediate-level Hebrew or experience in Babylonian Talmud or [NML220Y1](#).

Breadth Requirements: Thought, Belief and Behaviour (2)

NML340Y1 - Intermediate Middle Egyptian

Hours: 72S

A continuation of [NML240Y1](#), in which the student is exposed to a wide range of hieroglyphic texts in the Middle Egyptian dialect. Sources of historical, literary, religious, and economic significance will be studied. The grammar and syntax covered in [NML240Y1](#) are reviewed intensively.

Prerequisite: [NML240Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NML350H1 - Intermediate Biblical Hebrew I

Hours: 48S

A continuation of the study of ancient Hebrew grammar and texts. Focus is given to covering a wide variety of genres, e.g., narrative, chronicle, genealogy, oracle, prayer, hymn, and proverb.

Prerequisite: [NML250Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NML351H1 - Intermediate Biblical Hebrew II

Hours: 48S

A continuation of the study of ancient Hebrew grammar and texts. Focus is given to covering a wide variety of genres, e.g., narrative, chronicle, genealogy, oracle, prayer, hymn, and proverb.

Prerequisite: [NML350H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NML355H1 - Advanced Modern Hebrew I

Hours: 48S

Advanced intensive study of written and spoken Hebrew.

Prerequisite: [MHB256H1](#)/ [NML256H1](#)

Exclusion: OAC Hebrew, [MHB355H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NML356H1 - Advanced Modern Hebrew II

Hours: 48S

Continued advanced intensive study of written and spoken Hebrew.

Prerequisite: NML355H1/ MHB355H1

Exclusion: OAC Hebrew, MHB356H1

Breadth Requirements: Creative and Cultural Representations (1)

NML357H1 - Legends of the Jews (Aggadah)

Hours: 24S

This course is an introduction to the exegetical methods of the rabbinic sages in their analysis of biblical texts, with special attention to issues of intertextuality. After a quick overview of the genres of midrashic literature, we shall examine the midrashic methods used to transition from the biblical text to the midrash. Our main focus will be on Original Sin in the Garden of Eden and its repercussions. Our primary texts will be *Bereishit Rabbah*, *Avot de Rabbi Natan*, and *Alphabeta deBen Sirah*. We shall follow these midrashim in other midrash collections such as *Midrash HaGadol*, *Tanhuma*, *Bereishit Rabbati*, and *Aggadat Bereishit*. The motif of Original Sin has had significant reverberations in Judaism and Christianity and societies influenced by these traditions.

Prerequisite: Intermediate-level Hebrew (Modern or Biblical)

Breadth Requirements: Thought, Belief and Behaviour (2)

NML358H1 - Middle Hebrew: Mishnah and Tosefta

Hours: 24S

This course introduces Mishnah and Tosefta which are two of the three foundational documents of Middle Hebrew I from the Tannaitic period ending *circa* 250 CE in the Galilee. In addition to studying specific features of this level of Hebrew (e.g. syntax, grammar, vocabulary), we shall examine these compositions independently and analyze their interaction (textuality and intertextuality). Students will read recent scholarly literature on these documents and their relationship to each other and to

orality. Students will be introduced to the manuscripts of these documents and the variant readings will be studied philologically. Decisions on original readings will be made. Finally, we shall explore redaction and source critical issues allowing identifications of anonymous statements with specific authorities (sages). The Tractate may vary from year to year.

Prerequisite: Intermediate Hebrew (Modern or Biblical)

Breadth Requirements: Thought, Belief and Behaviour (2)

NML359Y1 - Eastern Aramaic – Babylonian Talmud

Hours: 72S

This course introduces the student to Talmudic texts through selections from a particular tractate for representative study. We shall study the Mishnah of the chapter in preparation for the Talmud. Recognition of the dialogic structure of the legal discussions centered on the Mishnah and its elucidation is emphasized. The classical commentaries (Rashi, Tosafot, R. Hananel), the use of dictionaries, concordances, biographies of sages, parallels and other sources will gradually become familiar to the student as aids in understanding the text under consideration. A brief presentation of the essential features of Babylonian Aramaic will be included in the course to facilitate study. Students will also be taught to make use of the Bar Ilan Responsa Project, the Lieberman database, and the Friedberg Jewish Manuscript Society database. We shall also discuss redactional issues as they appear.

Prerequisite: Intermediate-level Hebrew or experience in Babylonian Talmud

Breadth Requirements: Thought, Belief and Behaviour (2)

NML360Y1 - Intermediate Persian

Hours: 96L

This course is an intermediate/advanced level of Persian language for students who passed NML260Y1 or demonstrate commensurate Persian skills. The course continues to develop students' Persian language knowledge by focusing on more complex readings, writing, grammatical structure, translation, audio/visual, and conversational activities such as group discussion, language games, movies, dialogue, and playing roles at an advanced level. By the end of this course, students are able to reach the intermediate high/advanced level of proficiency in Persian. The course also serves as preparation for courses on classical and contemporary Persian literature.

Exclusion: Native speakers, [PRS310H5](#)

Recommended Preparation: [NML260Y1](#) and/or adequate knowledge of modern Persian

Breadth Requirements: Creative and Cultural Representations (1)

NML362Y1 - Middle Persian (Pahlavi)

Hours: 48L

An introduction to the grammar and syntax of Middle Persian, or Pahlavi, language; the special script it was written in; and the connections of Pahlavi to Old Persian and New Persian languages. Knowledge of Pahlavi provides access to the most important Zoroastrian religious texts, and the epic and wisdom literature composed during the period of the Sasanian empire (3rd–7th centuries CE) and early Islamic Iran (8th–10th centuries CE). Students will read excerpts, in the original Pahlavi, from such works as *Arda Wiraz Namag* (Book of the Righteous Wiraz, describing his journey to heaven and hell), *Karnamag i Ardakhshir i Pabagan* (Chronicle of Ardakhshir, Son of Pabag, narrating the deeds of the first Sasanian king), and *Bundahishn* (Primordial Creation, on Zoroastrian cosmology).

Recommended Preparation: [NML260Y1](#)/ [NML360Y1](#)/ [NMC259H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NML370Y1 - Intermediate Turkish

Hours: 96L

This course is designed for students who have already completed [NML270Y1](#) Introductory Turkish or have an equivalent level of proficiency in Turkish. It aims to expand students' communicative skills, grammatical knowledge, and vocabulary. A variety of intermediate-level speaking, listening, reading, and writing activities will be included to further develop both spoken and written language skills. By the end of the course, students will be able to read, understand, and translate various authentic texts of intermediate difficulty. They will be able to write short essays and talk about a wide range of general topics. They will also have gained a deeper understanding of the cultural contexts in which Turkish is spoken. The course also serves as a preparation for the advanced study of Turkish.

Prerequisite: [NML270Y1](#) or permission of instructor based on previous language knowledge.

Exclusion: Advanced speakers of Turkish

Breadth Requirements: Creative and Cultural Representations (1)

NML371H1 - Conversational Turkish: Oral Communication in Context

Hours: 24S

This course is designed for students who wish to consolidate their communicative and conversational skills in Turkish. Emphasis is placed on improving listening and speaking skills in diverse formal and informal contexts to prepare the students for real-life oral communication situations. Students will gain experience with different styles and registers while also improving their grasp of the Turkish culture.

Prerequisite: [NML270Y1](#) or equivalent proficiency. A placement test will be administered to assess previous language proficiency.

Exclusion: Permission of instructor required for native speakers

Breadth Requirements: Creative and Cultural Representations (1)

NML372H1 - Turkish Language through Television, Film, and Media

Hours: 24S

This dynamic Turkish language course aims to enhance students' proficiency through Turkish television series which have gained significant international popularity in recent years and through Turkish films from both classical and modern "Yeşilçam", the Turkish cinema industry. The course will also familiarize the students with the use of the Turkish language in traditional and social media. By the end of the course, students will have improved their receptive, expressive, and interactional skills in spoken and written modalities.

Prerequisite: [NML270Y1](#)

Exclusion: Native speakers

Breadth Requirements: Creative and Cultural Representations (1)

NML380H1 - Introduction to Ge'ez (Classical Ethiopic)

Hours: 36L

This course covers the essentials of Ge'ez (Classical Ethiopic) grammar, and introduces students to Ge'ez texts of elementary to intermediate difficulty.

Designed for students with no previous knowledge of Ge'ez.

Prerequisite: [NML110Y1](#)/ [NML220Y1](#)/ [NML250Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NML381H1 - Intermediate Ge'ez

Hours: 36L

This course continues the study of Ge'ez (Classical Ethiopic) grammar and progresses to a survey of classical Ge'ez literature. Linguistic connections to Amharic and Tigrinye will also be introduced.

Prerequisite: NML380H1 or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

NML405Y1 - Selected Standard Babylonian Texts

Hours: 48S

This intermediate Akkadian course is devoted to the study of the literary Akkadian dialect of the late second and first millennia, usually known as Standard Babylonian. Students will read excerpts of literary texts and royal inscriptions in R. Borger's *Babylonisch-Assyrische Lesestücke* and eventually proceed to more ambitious compositions such as *The Annals of Sennacherib* and *Enuma Elish*. Students are also expected to deepen their knowledge of the NeoAssyrian cuneiform script. (Offered in alternate years)

Prerequisite: NML305Y1

Breadth Requirements: Creative and Cultural Representations (1)

NML410Y1 - Advanced Standard Arabic

Hours: 96S

This course assumes active knowledge of the content covered in NML310Y. Its goal is to strengthen the students reading and writing skills, refine their knowledge of syntax and morphological patterns, and enrich their cultural background. This is achieved through analysis of sophisticated authentic texts covering a wide range of genres. In addition, Classical Arabic literary texts will be incrementally introduced. By the end of the course, students are expected to reach a superior level of proficiency.

Prerequisite: NML310Y1 or permission of instructor.

Exclusion: Native speakers.

Breadth Requirements: Creative and Cultural Representations (1)

NML411H1 - Media Arabic

Hours: 24S

This course familiarizes advanced students of Arabic with structural properties, styles, and discourse features of the language used in the Arabic media. Class time is devoted to analysis of authentic texts covering a wide range of topics and drawn from various online media outlets.

Prerequisite: NML310Y1 or adequate reading knowledge of Arabic.

Exclusion: Native speakers of Arabic must obtain permission of instructor.

Breadth Requirements: Creative and Cultural Representations (1)

NML412H1 - Adab and Arabic Literary Prose

Hours: 24L

This class surveys the rich and varied literary prose tradition in the Arabic language to the Mamluk period. These works are frequently referenced in modern Arabic literature, in addition to being beautiful and intellectually challenging in their own right. We will read essayistic epistles, advice guides, debates, sermons, and narrative works of a variety of genres, including, *maqamat*, anecdotes, and fables. All readings are in the original Arabic. The course focuses equally on developing reading skills specific to classical Arabic texts, and on developing an ability to analyze the themes, literary techniques, generic features, and ideas within those texts. We also consider the historical development of a distinct branch of knowledge called *adab*, that canonized many of these works.

Prerequisite: NML310Y1. Heritage speakers are encouraged to take this class.

Breadth Requirements: Creative and Cultural Representations (1)

NML413H1 - Premodern Arabic Poetry

Hours: 24L

The main focus for this course is reading poems by a variety of poets in the original Arabic. Class discussion focuses on how to decipher the lines of poetry using appropriate reference works, as well as close reading, rhetorical figures, historical context, and the shifting aesthetics of various poetic movements. Weekly exercises build to the study of the Arabic metric system. The course usually addresses a specific theme: for example, early Abbasid love poems selected to study the development of the concept of a culturally refined individual (*zarif*) in the

context of the “rhetorical style” (*badi'*) of “new” (*muhdath*) poetry.

Prerequisite: NML310Y1. Heritage speakers are encouraged to take this class.

Breadth Requirements: Creative and Cultural Representations (1)

NML415H1 - The Arabic Short Story

Hours: 24S

This course examines the origins and development of the modern Arabic short story as a literary genre by reading selected works in Arabic of major figures in the genre. The course historicizes the emergence of the short story, exploring the genre's consolidation as a major literary form in Arabic in the early 20th century. As part of an exploration of modern narrative in Arabic, students will read literary criticism that theorizes the emergence of modern Arabic narrative prose, paying close attention to questions of language, form, style and theme. The course also focuses on issues such as innovations in narrative technique, plot structure, complexity of characterization, and point of view. Authors include Mahmud Tahir Lashin, Yusif Idris, Zakariyya Tamir, Ghada al-Samman, Hanan al-Shaykh, and Fu'ad al-Takarli.

Prerequisite: NML310Y1 or permission of instructor.

Breadth Requirements: Creative and Cultural Representations (1)

NML420Y1 - Western Aramaic – Jerusalem Talmud

Hours: 72S

The Talmud of the Land of Israel, also called Talmud Yerushalmi or Palestinian Talmud, is written in a mixture of Jewish Western Aramaic and Middle Hebrew. It is the principal document of the Land of Israel in Late Antiquity. The course examines the legal argumentation, terminology and language which differ from those of the Babylonian Talmud. Recognition of the dialogical structure of the legal discussions concerning the Mishnah and its elucidation will be emphasized. Terminology, grammar, and syntax of Western Aramaic will be addressed. We shall also investigate when the text uses Hebrew versus Aramaic. Students will be taught the use of the Bar Ilan Responsa Project and the Lieberman bibliographic database. Close attention will be paid to its relationship to Tosefta.

Prerequisite: Intermediate-level Hebrew (Modern or Biblical)

Recommended Preparation: NML220Y1/ NML320H1

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

NML421Y1 - Classical Syriac

Hours: 48S

This course is primarily a reading course in Syriac literature with reference to specific points in grammar and syntax as contrasted with Aramaic. The texts are read with reference to the history of Syriac literature.

Prerequisite: NML220Y1

Breadth Requirements: Creative and Cultural Representations (1)

NML440H1 - Ancient Egyptian Historical Texts

Hours: 36S

This is an advanced language seminar that introduces the student to the analysis, in terms of both language/grammar and content, of Ancient Egyptian texts of historical significance. Texts from the periods of the Old Kingdom up to the Late Period will be studied, and all texts will be read in the (mostly Middle Egyptian) original. Particular attention will be paid to the cultural and social context of the texts, and questions such as how to best define “historical texts,” and to what extent literary texts may be used as historical sources, will be discussed.

Prerequisite: NML340Y1

Breadth Requirements: Creative and Cultural Representations (1)

NML441H1 - Ancient Egyptian Religious and Funerary Texts

Hours: 36S

This is an advanced language seminar that introduces the student to the analysis, in terms of both language/grammar and content, of texts that elucidate ancient Egyptian religious conceptions. Texts from all periods of Pharaonic history will be studied and all texts will be read in the original. While the focus will be on texts from funerary contexts, for which the most complete sources can be found, cultic, magical, and theological sources will also be studied.

Prerequisite: NML340Y1

Breadth Requirements: Creative and Cultural Representations (1)

NML442Y1 - Late Egyptian Texts

Hours: 72S

The course introduces students to the Late Egyptian dialect attested from the New Kingdom and spanning the period from ca. 1300 to 700 BCE. Students will be introduced to grammar, syntax, and orthography through readings of original texts; these will include stories, letters, business documents, and formal inscriptions. Standard grammars and dictionaries are supplemented by the instructor's notes and handouts.

Prerequisite: NML240Y1, NML340Y1

Recommended Preparation: NML440H1, NML441H1

Breadth Requirements: Creative and Cultural Representations (1)

NML450H1 - Advanced Biblical Hebrew

Hours: 24S

Continuation of the study of Biblical Hebrew language. Combination of reading more advanced texts and Hebrew composition exercises. Introduction to the standard reference works for advanced study of the phonology, morphology, syntax, and semantics of Biblical Hebrew.

Prerequisite: NML350H1 or NML351H1

Breadth Requirements: Creative and Cultural Representations (1)

NML452H1 - Halakhic Midrashim

Hours: 36S

Halakhic Midrash, the rabbinic continuation of biblical law, is written in Middle Hebrew I and is one of the three major literary creations of the Tannaitic period. It is an important part of ancient Jewish biblical interpretation which often differs from sectarian interpretation as found in Qumran. A study of the terminology and methodology indicates the existence of two midrashic systems: Devei R. Akiba and Devei R. Ishmael. This course familiarizes students with the methodology and terminology of these two midrashic schools. We will examine the scholarly debate concerning the exact time in which the halakhic midrashim were composed and redacted as well as the transfer of terminology and material between the schools. Sections from all the midrash halakhah (*Mekhiltot*, *Sifra* and *Sifre*) are studied and compared to other tannaitic materials.

Prerequisite: Intermediate-level Hebrew (Modern or Biblical)

Breadth Requirements: Thought, Belief and Behaviour (2)

NML455H1 - Modern Hebrew Poetry

Hours: 24S

This course is designed for the advanced students of Modern Hebrew who wish to pursue the study of Hebrew literature. We will examine the way in which this literature relates to ideas of land, homeland, peoplehood, and religious identities. We will continue with Yehuda Amichai's poetry with particular attention to his love poetry. Our major concentration will be on Haim Nahman Bialik's poetry and include at least one of his major epic poems. We shall focus on what makes Amichai and Bialik national poets. Our method of poetic analysis will include an inter-textual examination of the sources of poetic inspiration. Students will be taught to use the Bar Ilan Responsa Project as an aid to tracking allusions. We will also use historical Hebrew dictionaries.

Prerequisite: High Intermediate-level Modern Hebrew

Breadth Requirements: Creative and Cultural Representations (1)

NML456H1 - Modern Hebrew Prose

Hours: 24S

This course is designed to introduce advanced students of Modern Hebrew to modern prose written primarily in today's state of Israel. To this end we will spend two weeks looking at the motifs and styles available in contemporary children's literature with an eye to their use of biblical allusions. This serves as background to a study of short stories by the Nobel laureate Agnon. The sources of the stories will be studied from the perspective of intertextuality where the source is both inspirational and in turn explicated by the novelist. The use of online search engines and databases will facilitate this analysis. The course teaches advanced reading skills in prose literature in Hebrew with emphasis on interpreting the texts, close readings, and tracking allusions. Use will be made of historical Hebrew dictionaries.

Prerequisite: High Intermediate-level Modern Hebrew

Recommended Preparation: NML225H1, NML256H1

Breadth Requirements: Creative and Cultural Representations (1)

NML459H1 - Readings in Second Temple Period Texts

Hours: 24S

This course provides an advanced investigation of selected issues in ancient Jewish texts stemming from the Second Temple Period (5th cent. BCE 1st cent. CE), and includes comparative study of biblical writings, apocrypha

and pseudepigrapha, the Dead Sea Scrolls, and writings of ancient Jewish historians and philosophers. The specific topic for the course varies from one semester to another. The course has a strong research and writing component.

Prerequisite: NML350H1 or NML351H1. Depending on the specific topic of the semester, knowledge of Greek or Aramaic may be recommended.

Recommended Preparation: NMC252H1, NMC351H1

Breadth Requirements: Thought, Belief and Behaviour (2)

NML460H1 - Advanced Persian I

Hours: 36S

This course is designed for students who have already completed NML360Y1 Intermediate Persian or have an equivalent level of proficiency in Persian. This course aims to develop students' abilities at an advanced level, with a focus on complex reading materials including historical, socio-political, media and journalistic texts. Students will improve their reading comprehension, strengthen writing skills, and advance speaking and listening skills through class discussions and oral presentations.

Prerequisite: NML360Y1. Students who have an equivalent level of proficiency should contact the instructor concerning enrolling in the course.

Exclusion: Native Speakers

Breadth Requirements: Creative and Cultural Representations (1)

NML461H1 - Modern Persian Poetry

Hours: 36S

This course examines Persian literature, mainly modern Persian poetry from the 19th to the 21st centuries, focusing on linguistics and literary approaches in contemporary poetry. The course includes a brief overview of different factors which shaped modern Persian poetry, then concentrates on the works of well-known modern poets who had great influence on establishing and developing Persian contemporary poets such as Nima Yushij, Ahmad Shamlu, Mehdi Akhavan Sales, Sohrab Sepehri, Forugh Farrokhzad, Hushang Ebtehaj, Simin Behbahani, and Mohammad Reza Shafi'i-Kadkani. After presenting a short biography and the works of each poet, students read selected poems of each poet and discuss the structure, poetic styles, figures of speech, themes and motifs in the poems. (Conducted in Persian)

Prerequisite: NML360Y1 or permission of instructor.

Breadth Requirements: Creative and Cultural Representations (1)

NML462H1 - Modern Persian Prose

Hours: 36S

This course examines contemporary Persian prose, focusing on fiction, especially the novel and short story. After an overview of different genres of prose writing, the main elements of a story, such as plot, scene, character, theme, topic, point of view, and conflict, are discussed. The literary knowledge and abilities of students will be developed by analyzing different genres of prose writing, especially Persian short stories. At the end of this course students will be able to examine and analyze any form of story-writing and compose their own short stories. (Conducted in Persian.)

Prerequisite: NML360Y1 or permission of instructor.

Breadth Requirements: Creative and Cultural Representations (1)

NML463H1 - Advanced Persian II

Hours: 36S

This course is designed for students who have already completed NML460H1 Advance Persian I or have an equivalent level of proficiency in Persian. Its goal is to strengthen the students reading and writing skills and enrich their cultural and literary background. This is achieved through analysis of sophisticated authentic literary texts covering a wide range of literary genres.

Prerequisite: NML460H1. Students who have an equivalent level of proficiency should contact the instructor concerning enrolling in the course.

Exclusion: Native Speakers

Breadth Requirements: Creative and Cultural Representations (1)

NML465Y1 - Avestan

Hours: 48L

This course surveys the grammar and syntax of the language of the Young Avestan corpus, belonging to the Old Iranian linguistic group. The Avesta was a compendium of Zoroastrian texts composed orally in northern Iran and Central Asia in two dialects spoken in different periods: Old Avestan (2nd millennium BCE) and Young Avestan (1st millennium BCE). Most foundational texts of Zoroastrianism were composed in Young Avestan language, which attests a more simplified grammar than

Old Avestan and in this regard is closer to Old Persian. Knowledge of Young Avestan provides access to the mythical and ritual context of pre-Islamic Iran and Central Asia. Students will be introduced to the main phonological, morphological, and syntactical features of the Young Avestan language; its script; its most important texts; and its connections with Old Persian and Middle Persian, or Pahlavi.

Recommended Preparation: [NML260Y1](#)/ [NML360Y1](#)/
[NML464Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NML466H1 - Theory and Practice of Translation from and into Persian

Hours: 24S

An introduction to theories and techniques involved in English/Persian translation, focusing on translation practice and theoretical discussions on linguistic, cognitive, socio-political, and cultural aspects of translation. Through analysis and application of translation theory, students practice the art of translation and develop awareness of issues that translators face.

Prerequisite: [NML360Y1](#) or permission of instructor based on previous language knowledge.

Breadth Requirements: Creative and Cultural Representations (1)

NML467H1 - Persian Literature: The Epic Tradition

Previous Course Number: NML460Y1

Hours: 36S

Selected representative readings from the iconic masterpieces of classical heroic and romantic epic poetry, including the Persian national epic, *Shahnameh*, or Book of Kings; the magisterial ode of Khaqani on the ruins of a Sasanian palace; and tales from the *Khamseh*, or Quintet, of Nezami about the star-crossed lovers Laili and Majnun and the world-conqueror Iskandar, or Alexander the Great. Emphasis is on close reading and analysis of the linguistic and literary content and style of these works, and discussion of their historical and cultural backgrounds. All readings are in the original Persian. During the course, students will acquire essential skills in the technical requirements of classical Persian poetry, such as prosody, rhyme, and poetic devices.

Prerequisite: [NML360Y1](#) or adequate knowledge of Persian

Exclusion: [NML460Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NML468H1 - Persian Literature: Ethical, Erotic, and Mystical

Previous Course Number: NML460Y1

Hours: 36S

The companion course to [NML467H1](#) (Persian Literature: The Epic Tradition). Selected representative readings from the ethical works of Sa'di (*Bustan* and *Gulistan*); the mystical parable *Mantiq al-tayr* of 'Attar and the *Masnavi-ma'navi* of Rumi; and the *ghazals*, or mystico-erotic lyrical poems, of Rumi and Hafiz. Emphasis is on close reading and analysis of the linguistic and literary content and style of these works, and discussion of their historical, cultural, and religious backgrounds. All readings are in the original Persian. During the course, students will acquire essential skills related to the technical requirements of classical Persian poetry, such as prosody, rhyme, and poetic devices, as well as an understanding of the key concepts and terminology of Persian Sufism.

Prerequisite: [NML360Y1](#) or adequate knowledge of Persian

Exclusion: [NML460Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

NML470Y1 - Advanced Turkish

Hours: 96L

This course is designed for students who have already completed [NML370Y1](#) Intermediate Turkish or have an equivalent level of proficiency in Turkish. It aims to build upon the existing competence of the students in Turkish and to further improve their four skills through a variety of advanced speaking, listening, reading, and writing activities. By the end of this comprehensive course, students will be able to read, understand and translate various authentic texts of different genres such as literary works. They will be able to write essays on a wide range of topics. They will demonstrate the ability to express themselves both orally and in writing through complex grammatical structures and a rich vocabulary. They will also have gained thorough understanding of the social and cultural contexts in which Turkish is spoken. The course will enable students to pursue independent studies in Turkish.

Prerequisite: [NML370Y1](#) or permission of instructor based on previous language knowledge.

Breadth Requirements: Creative and Cultural Representations (1)

NML471H1 - Selected Readings in Turkish Literature

Hours: 24S

This course focuses on the analysis of representative examples of both poetry and prose from various periods of Turkish literature. Students will gain familiarity with different literary genres, themes, and traditions. Focusing on major works, the course will enhance students' understanding of the cultural context in which the literature was produced. It will also help students further enrich their vocabulary and improve their grasp of grammatical phenomena.

Prerequisite: NML370Y1 or adequate knowledge of Turkish (Native speakers are allowed to take this course).

Exclusion: NML490H1 (Topics in Near and Middle

Eastern Languages: Readings From Modern Turkish Literature and Media), offered in Fall 2021

Breadth Requirements: Creative and Cultural Representations (1)

NML490H1 - Topics in Near and Middle Eastern Languages

Hours: 36S

An advanced language seminar organized around grammatical issues or texts selected by the instructor.

Prerequisite: Permission of the Instructor

Breadth Requirements: Creative and Cultural Representations (1)

New College

Faculty List

Associate Professors

F. Garrett, MA, PhD (Buddhism, Psychology and Mental Health/Religion)

Associate Professors, Teaching Stream

A. McGuire, BA (Hons), MA, PhD (Critical Studies in Equity and Solidarity)

A. Wasike, BA, MA, MEd, PhD (New College/African Studies Centre)

Associate Professors, Teaching Stream (Part-Time)

A. Guerson, PhD (International Foundation Program/New One)

Assistant Professors, Teaching Stream

C. Desai, PhD (Critical Studies in Equity and Solidarity)

S. Doyle-Wood, BA, MA, PhD (Critical Studies in Equity and Solidarity/Transitional Year Programme)

K. Edmonds, BA (Hons), MA, PhD (Community Engaged Learning/Caribbean Studies Centre)

M. A. El Waer, BA (Hons), MA (Sociology/Critical Studies in Equity and Solidarity)

M. Prescott-Brown, BA (Hons), MA, PhD (Writing Centre)

Assistant Professors, Teaching Stream (Part-Time)

R. Buiani, PhD (New One)

M. Levin, BA, MSc, PhD (New College/African Studies Centre)

C. Ramsaroop, BA (Hons), MEd (Critical Studies in Equity and Solidarity/New One)

E. Weisbaum, BFA, MES, PhD (Buddhism, Psychology and Mental Health)

Introduction

New College courses have in common a commitment to socially engaged learning and to explorative and inventive pedagogy that widens students' experience by critically examining relationships among academic disciplines. We offer two degree programs: Buddhism, Psychology and Mental Health; and Critical Studies in Equity and Solidarity. These programs are open to all students in the Faculty of Arts and Science.

We also offer interdisciplinary courses that can enhance any degree program. Integration of student experience is a major priority in a college with students from all faculties

in the University. The Independent Studies courses provide an opportunity for students to design their own programs and to test their research, analytic, synthetic, and creative skills by writing a major research paper. The Community Engaged Learning program supports course-based service learning and independent community engaged learning opportunities. These allow students to integrate their theoretical knowledge with practical experience, while engaging in meaningful work in campus and community organizations.

Contact:

Program Administrator's Office:
New College, Room 133 (416-978-2667) or
nc.undergradadmin@utoronto.ca

New One:
new.one@utoronto.ca

Registrar's Office:
New College, Room 107 (416-978-2460)

New One: Learning Without Borders

New One provides first year students with a comprehensive foundation for successful undergraduate study. It encourages active, engaged learning and creative forms of inquiry, and supports students in developing their research, writing and oral communication abilities. In New One, students develop skills in research and knowledge presentation, showcasing their projects at our Knowledge Fair.

New One offers up to ten interdisciplinary small-class seminars annually. Students join the program by simply registering in one of our courses, whether in the Fall or Winter term. The courses explore themes that connect to our daily lives such as the food we eat, the languages we speak, the technology we use, the art that we create and surrounds us, and the science that impacts our lives. We encourage students to take a course in both the Fall and Winter terms for a more complete experience.

New One gives students the tools to think deeply, critically, and creatively and to see the ways our lives are connected "beyond borders." Inspired by the social advocacy focus of New College's academic programs, the program grapples with the core question: how do we imagine responsible global citizenship and build a more equitable and just society?

New One courses meet for 3 hours each week. The first two hours are usually dedicated to course content, while the third hour is allocated to "Learning Labs." All students come together in these Learning Labs to engage in joint activities and explore issues that are common to the themes of the courses. Both in seminars and Learning Labs, students will experience a variety of ways of learning (through, for example, guest lectures, group

work, workshops, field trips to local community organizations, and panels of senior students sharing their experience and insights).

New One does not require a specific application. All first-year students in the Faculty of Arts and Science on the St. George campus are eligible to register in our courses. Students, however, can only take courses in one College One program in the same term. For more information about the program, go to <http://uoft.me/NewOne> or contact new.one@utoronto.ca.

The Buddhism, Psychology and Mental Health Program

(Minor) The Buddhism, Psychology and Mental Health (BPMH) Program is an interdisciplinary undergraduate Minor that allows students to choose from a wide range of courses in Buddhist Studies, cognitive science, medical anthropology, psychology of religion, health psychology, and sociological analyses of physical and mental health. With this training, students acquire an understanding of how Buddhist traditions have interacted with and contributed to global and diverse understandings of consciousness, mental health and distress, and determinants of health. Students study global and diverse models of mental health and well-being through a self-reflective, meta-cognitive, and phenomenological study of Buddhism and health in contexts of relational, intersectional, and global interconnections.

Consult Acting Program Director, Dr. Eleanor Weisbaum via email at elli.weisbaum@utoronto.ca. For general enquiries, call 416-978-2667 or email nc.undergradadmin@utoronto.ca.

Critical Studies in Equity and Solidarity

(Major, Minor) Critical Studies in Equity and Solidarity (CSES) is an interdisciplinary program that explores how social relations and practices of power and privilege are (re)produced locally and transnationally. In CSES we question the dominant conceptualization of equity by the state, educational programs, the non-profit sectors and community organizations as individualized and de-historicized social differences. CSES is a hub of critical disability studies teaching and learning. The program provides students with theoretical and practical tools to study social, political, economic and historical injustices. CSES takes a unique approach to undergraduate education that values student experiential learning and community knowledge. The learning goal of CSES is to provide frameworks on theories of transformative social change rooted in political activism and formations of solidarity. The program encourages students to apply theory in action through organizing and practicing solidarity in making a more just world. CSES creates a dynamic learning environment that extends far beyond the university walls. With a vibrant student body, dynamic faculty members, connection with a wide range of

community partners and a bold curriculum, CSES at New College is a leader in studies of social justice, settler colonialism, race, gender, sexuality, disability, land/water and sustainability, activism, solidarity and the art of resistance, and global food equity and security.

Consult Program Director, Professor A. McGuire, 416-978-0829 or email cses.director@utoronto.ca. For general enquiries, call 416-978-2667 or email nc.undergradadmin@utoronto.ca.

Community Engaged Learning (CEL)

New College offers several community engaged courses. These provide students the opportunity to integrate academic, experiential and practice-based learning as they participate in meaningful work in community or campus organizations.

Two forms of community engaged learning courses are offered: embedded and independent. In the former, a community service component is either a mandatory or optional component of the course syllabus. (Examples of such courses are [CSE342H1](#) and [BPM232H1](#)). In the *independent* community engaged learning courses, upper level students, with various academic backgrounds, are placed with a social purpose community or campus-based organization for several hours per week, contributing to the mission of that organization in program support work or research. Through seminar discussions and critical reflection on their experiences, students learn how to mobilize their academic knowledge, deepen their appreciation of community engagement and social justice, explore social and ethical issues, and build professional dispositions and work-place skills relevant to the social sector.

Information about CEL can be found at <https://www.newcollege.utoronto.ca/programs/cel/>.

Enquiries: nc.engagedlearning@utoronto.ca.

Independent Studies

New College Independent Study courses are designed both to complement regular offerings in New College Programs and to provide an opportunity for New College students in any program to enrich their studies. The normal expectation of a project course is that the student, aided and advised by their supervisor, will read relevant literature, and plan, analyze and report on an original and independent investigation of an appropriate topic. Written applications, including a detailed proposal, should be made through the Programs Office for approval by the Vice Principal of New College or a designate by April 15 for the Summer Session; by July 15 for the Fall Term; or by November 15 for the Winter Term. Should the deadline fall on a weekend, applications will be accepted until the following Monday. Students will be notified of the acceptance or rejection of an application. If the project

requires ethics approval, please be advised that you should find and consult with a supervisor about meeting this requirement at least a semester in advance of these deadlines. For more information and application forms, please see the Independent Studies website: <https://www.newcollege.utoronto.ca/independent-studies/>.

Enquiries: New College Program Administrator - Wetmore Hall, room 133; nc.undergradadmin@utoronto.ca or 416-978-2667.

Interdisciplinary Courses on Jungian Theory

This suite of courses offers students opportunities for sustained, interdisciplinary engagement with the thought of Carl Jung. Courses invite students to consider Jung's thought and practice in relation to a range of disciplinary and cultural issues in order to open up conversations about models of consciousness and mind.

Enquiries: New College Program Administrator - Wetmore Hall, room 133; nc.undergradadmin@utoronto.ca or 416-978-2667.

International Foundation Program

This program is designed for international students who need to meet the University's English language requirement. The program is offered to students in the Faculties of Arts and Science, Music, and the Daniels Faculty of Architecture, Landscape and Design. The program consists of five courses that are designed to develop students' language and critical skills through the modalities of reading, writing, listening, and speaking as well as develop students' academic literacy in a course related to their admitted program of study. The program approaches language development from a social perspective and language learning is situated within authentic academic contexts. Students learn to master foundational academic skills such as research and digital literacy, time management, exam, and study skills. Students take a history course, *Themes in World History*, which applies critical skills that have been scaffolded in the language courses (e.g., paraphrasing, summarizing, citing sources, etc.). In the history course, students learn how to understand the relationship of human beings and their environment, cross-cultural and gender relations, and how global patterns affect local developments making students better able to assess the historical context of challenges society faces today.

Core courses include one first-year history credit course (IFP100Y1), three non-credit language courses and one non-credit discipline-specific course. Courses are open only to students admitted to the program. For program and admission information, please see <https://internationalprograms.utoronto.ca>.

The African Studies Program

(Specialist, Major, Minor) provides students unique opportunities to study the complexity and dynamism of African societies, the dynamics processes of socio-economic, cultural, environmental, and political transformations in Africa, the varied histories, ideas and institutions of Africa and its diasporas through interdisciplinary and transdisciplinary lenses. It fosters a vibrant intellectual, social and cultural hub of academic excellence with a shared ethos and commitment to public scholarship, social justice, global citizenship, engaged scholarship and a praxis of inclusivity, epistemic diversity, and reflexive community engagement.

Effective July 1, 2023, the administration of the existing undergraduate programs and courses in African Studies has been moved from New College to the new African Studies Centre. See the [African Studies](#) section of the Calendar for a complete listing of programs and courses.

The Caribbean Studies Program

(Specialist, Major, Minor) offers a combined interdisciplinary and area studies approach to examining a wide range of issues including gender, religion, culture, ethnicity, race, development, language, colonialism, the environment and regional common markets.

Effective July 1, 2022, the administration of the existing undergraduate programs and courses in Caribbean Studies has been moved from New College to the new Centre for Caribbean Studies. See the [Caribbean Studies](#) section of the Calendar for a complete listing of programs and courses.

The Human Biology Programs

These programs offer a broad education in life sciences with courses offered by departments in both the Faculty of Arts & Science, and the Temerty Faculty of Medicine (see the [Human Biology](#) section of the Calendar.)

The Women and Gender Studies Program

(Specialist, Major, Minor) provides an interdisciplinary and culturally inclusive approach to understanding gender (see the [Women and Gender Studies](#) section of the Calendar.)

New College Programs

Buddhism, Psychology and Mental Health Minor (Arts Program) - ASMIN1017

Enrolment Requirements:

Enrolment in the Buddhism, Psychology and Mental Health Minor will be administratively suspended as of January 31, 2024 and students will no longer be able to enrol in the program. Students presently enrolled in the Minor will be able to complete the program requirements as described below. Students who are not enrolled in this Minor but are interested in related disciplines are strongly recommended to consult the Anthropology, Cognitive Science (University College), Psychology, and Religion sections of the Academic Calendar for program options.

Completion Requirements:

Consult Program Administrator:
nc.undergradadmin@utoronto.ca or 416-978-2667.

(4.0 credits, including 1.0 credit at the 300+ level)

First Year:

No specific first-year courses required.

Higher Years:

1. BPM232H1

2. 2.0 credits from the Core Group: BPM100H1, BPM214H1, BPM330H1, BPM332H1, BPM333H1, BPM334H1, BPM335H1, BPM336H1, BPM337H1, BPM338H1, BPM339H1, BPM430H1, BPM432H1, BPM433H1, BPM438H1, BPM499H1

3. 1.5 credits from Group A

Group A:

ANT100Y1, ANT204H1, ANT207H1, ANT253H1, ANT348H1, ANT356H1, ANT368H1, CAR316H1, COG250Y1, COG341H1, COG342H1, EAS241H1, EAS346H1, EAS361H1, EAS393H1, EAS393Y1, EAS414H1, ETH201H1, ETH220H1, ETH230H1, FAH260H1, HIS280Y1, HIS282Y1, HIS489H1, HMB300H1, HMB434H1, HPS100H1, HPS110H1, HPS200H1, HPS250H1, HPS352H1, HST209H1, HST305H1, HST306H1, INS300Y1, INS340Y1, JAR301H1, JFP450H1, JSR312H1, NEW302Y1, NEW303H1, PHL100Y1, PHL200Y1, PHL201H1, PHL217H1, PHL232H1, PHL235H1, PHL237H1, PHL240H1, PHL243H1, PHL244H1, PHL275H1, PHL281H1, PHL302H1, PHL310H1, PHL311H1, PHL319H1, PHL320H1, PHL331H1, PHL332H1, PHL335H1, PHL340H1, PHL341H1, PHL344H1, PHL375H1, PHL376H1, PHL382H1, PHL383H1,

PHL404H1, PHL405H1, PHL406H1, PHL407H1, PHL414H1, PHL415H1, PHL455H1, PHL478H1, PHL479H1, PSY100H1, PSY210H1, PSY220H1, PSY230H1, PSY240H1, PSY260H1, PSY270H1, PSY280H1, PSY311H1, PSY312H1, PSY313H1, PSY321H1, PSY326H1, PSY331H1, PSY333H1, PSY336H1, PSY337H1, PSY341H1, PSY342H1, PSY343H1, PSY370H1, PSY371H1, PSY414H1, PSY425H1, PSY426H1, PSY434H1, PSY435H1, PSY450H1, PSY473H1, PSY493H1, RLG100H1, RLG101H1, RLG106H1, RLG200H1, RLG206H1, RLG209H1, RLG210Y1, RLG211H1, RLG212H1, RLG235H1, RLG301H1, RLG303H1, RLG304H1, RLG309H1, RLG311H1, RLG317H1, RLG318H1, RLG319H1, RLG371H1, RLG372H1, RLG373H1, RLG374H1, RLG376H1, RLG387H1, RLG407H1, RLG421H1, RLG426H1, RLG462H1, RLG463H1, RLG464H1, RLG465H1, RLG469Y1, RLG470H1, RLG478H1, RLG479H1, SOC243H1, SOC250Y1, SOC363H1, SOC448H1, SOC483H1, VIC106H1, VIC206H1

Critical Studies in Equity and Solidarity Major (Arts Program) - ASMAJ1141

Critical Studies in Equity and Solidarity (CSES) is an interdisciplinary program that explores how social relations and practices of power and privilege are (re)produced locally and transnationally. In CSES we question the dominant conceptualization of *equity* by the state, educational programs, the non-profit sectors and community organizations as individualized and de-historicized social differences. CSES is a hub of critical disability studies teaching and learning. The program provides students with theoretical and practical tools to study social, political, economic and historical injustices. CSES takes a unique approach to undergraduate education that values student experiential learning and community knowledge. The learning goal of CSES is to provide frameworks on theories of transformative social change rooted in political activism and formations of solidarity. The program encourages students to apply theory in action through organizing and practicing solidarity in making a more just world. Equity Studies creates a dynamic learning environment that extends far beyond the university walls. With a vibrant student body, dynamic faculty members, connection with a wide range of community partners and a bold curriculum, CSES at New College is a leader in studies of social justice, settler colonialism, race, gender, sexuality, disability, land/water and sustainability, activism, solidarity and the art of resistance, and global food equity and security.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Consult Program Administrator:
nc.undergradadmin@utoronto.ca or 416-978-2667.

(7.0 credits, including 2.0 credits at the 300+ level)

First Year:

No specific first-year courses required.

Higher Years:

1. CSE240H1
2. CSE341H1
3. JQR360H1
4. 2.0 additional credits from the core group, including at least 0.5 at the 400-level: JNS450H1, CAR315H1, CSE241Y1, CSE270H1, CSE340H1, CSE342H1, CSE344H1, CSE344Y1, CSE345H1, CSE346H1, CSE347H1, CSE348H1, CSE349H1, CSE439H1, CSE440Y1, CSE441H1, CSE442H1, CSE443H1, CSE444H1, CSE445H1, CSE446H1, CSE447H1, CSE448H1, CSE449H1, CSE469Y1, CSE499H1
5. 3.5 credits from Groups A, B, C, D (including one or more credits from at least three of the four groups)

Group A: Gender

ANT343H1, ANT460H1, CAR317H1, CAR325H1, CAS360H1, CHC322H1, CLA219H1, CLA319H1, EAS380H1, EAS388H1, ENG355Y1, FRE304H1, GGR320H1, GGR327H1, HIS205H1, HIS297Y1, HIS348H1, HIS363H1, HIS383Y1, HIS406H1, HIS446H1, HIS481H1, ITA455H1, JAL355H1, NMC245H1, NMC284H1, NMC484H1, PHL367H1, POL303H1, POL351H1, POL432H1, REN341H1, REN342H1, REN343H1, RLG235H1, RLG311H1, RLG312H1, RLG313H1, SLA248H1, SOC265H1, SOC365H1, SOC383H1, SOC465H1, SPA382H1, WGS160Y1, WGS260H1, WGS271Y1, WGS273H1, WGS367H1, WGS372H1, WGS373H1

Group B: Race, Anti-Racism and Ethnicity

AFR150Y1, AFR250Y1, AFR322H1, AFR351Y1, AFR352H1, AMS310H1, ANT204H1, ANT458H1, ANT463H1, ANT464H1, CAR225H1, CAR226H1, CAR324H1, CAR328H1, CAS310H1, CAR427H1, CAR429H1, CDN280H1, CDN307H1, CDN335H1, CIN337H1, ENG270H1, ENG355Y1, ENG356Y1, ENG367H1, ENG368H1, ENG369H1, ENG370Y1, FAH351H1, FIN320H1, FRE336H1, GGR240H1, HIS107Y1, HIS208Y1, HIS221H1, HIS222H1, HIS230H1, HIS231H1, HIS245H1, HIS282Y1, HIS297Y1, HIS303H1, HIS338H1, HIS359H1, HIS360H1, HIS361H1, HIS391Y1, HIS392Y1, HIS413H1, HIS416H1, HIS467H1, HIS470H1, HIS474H1, JHN323H1, JLN327H1, INS261H1, LAS301H1, LAS302H1, LAS401H1, NMC484H1, POL467H1, RLG344H1, RLG352H1, RLG353H1, SLA222H1, SOC210H1, SPA486H1, UNI199H1, WGS481H1, WGS390H1, WGS442H1

Group C: Sexual Diversities

ANT441H1, ANT456H1, EAS389H1, ENG273Y1,

ENG384Y1, JPS315H1, JSU325H1, NMC384H1, PHL243H1, PSY323H1, RLG313H1, SDS199H1, SDS246H1, SDS255H1, SDS256H1, SDS279H1, SDS345H1, SDS355H1, SDS365H1, SDS377H1, SDS378H1, SDS380H1, SDS381H1, SDS382H1, SDS385H1, SDS455H1, SDS465H1, SDS470H1, UNI104H1, WGS374H1, WGS376H1

Group D: General Critical Equity

AFR298H1, AFR370H1, AFR454H1, ANT204H1, ANT205H1, ANT324H1, ANT327H1, ANT329H1, ANT346H1, ANT348H1, ANT358H1, ANT364H1, ANT366H1, ANT420H1, ANT426H1, ANT472H1, ANT474H1, BPM214H1, CAR220H1, CAR221H1, CAS350H1, CAS420H1, CDN267H1, CDN367H1, CRI487H1, DTS200Y1, DTS401H1, DTS402H1, EAS315H1, EAS439H1, EDS260H1, ENG254H1, ENV430H1, GGR107H1, GGR112H1, GGR240H1, GGR328H1, GGR329H1, GGR338H1, GGR339H1, GGR357H1, GGR363H1, GGR418H1, GGR419H1, GGR434H1, HIS106Y1, HIS318H1, HIS323H1, HIS324H1, HIS424H1, HIS459H1, HIS480H1, HIS489H1, HMB203H1, HMB303H1, HMB443H1, HPS240H1, HPS324H1, HST330H1, HST411H1, INS200H1, INS201Y1, INS240Y1, INS250H1, INS261H1, INS300Y1, INS301Y1, INS302H1, INS322H1, INS340Y1, INS341H1, INS350H1, INS353H1, INS354H1, INS360Y1, INS402H1, INS403H1, INS405H1, JFP450H1, JGU216H1, JNH350H1, JSU237H1, JUG325H1, LIN211H1, NMC384H1, PHL273H1, PHL281H1, PHL380H1, PHL383H1, PHL384H1, POL198H1, POL201H1, POL344H1, POL353H1, POL358H1, POL412H1, POL418H1, POL421H1, POL439H1, POL480H1, RLG201H1, RLG317H1, SAS318H1, SOC207H1, SOC220H1, SOC282H1, SOC309H1, SOC363H1, SOC364H1, SOC367H1, SOC479H1, SPA383H1, UNI101H1, URB333H1

Critical Studies in Equity and Solidarity Minor (Arts Program) - ASMIN1141

Critical Studies in Equity and Solidarity (CSES) is an interdisciplinary program that explores how social relations and practices of power and privilege are (re)produced locally and transnationally. In CSES we question the dominant conceptualization of *equity* by the state, educational programs, the non-profit sectors and community organizations as individualized and de-historicized social differences. CSES is a hub of critical disability studies teaching and learning. The program provides students with theoretical and practical tools to study social, political, economic and historical injustices. CSES takes a unique approach to undergraduate education that values student experiential learning and community knowledge. The learning goal of CSES is to provide frameworks on theories of transformative social change rooted in political activism and formations of solidarity. The program encourages students to apply

theory in action through organizing and practicing solidarity in making a more just world. Equity Studies creates a dynamic learning environment that extends far beyond the university walls. With a vibrant student body, dynamic faculty members, connection with a wide range of community partners and a bold curriculum, CSES at New College is a leader in studies of social justice, settler colonialism, race, gender, sexuality, disability, land/water and sustainability, activism, solidarity and the art of resistance, and global food equity and security.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

Consult Program Administrator:
nc.undergradadmin@utoronto.ca or 416-978-2667.

(4.0 credits, including at least 1.0 credit at the 300+ level)

First Year:

No specific first-year courses required.

Higher Years:

1. CSE240H1

2. 1.0 credit in any area from the Core Group: JNS450H1, CAR315H1, CSE241Y1, CSE270H1, CSE340H1, CSE341H1, CSE342H1, CSE344H1, CSE344Y1, CSE345H1, CSE346H1, CSE347H1, CSE348H1, CSE349H1, CSE439H1, CSE440Y1, CSE441H1, CSE442H1, CSE443H1, CSE444H1, CSE445H1, CSE446H1, CSE447H1, CSE448H1, CSE449H1, CSE469Y1, CSE499H1

3. 1.5 additional credits in any area from the Core Group, or 1.5 credits from Groups A, B, C, D

4. An additional 1.0 credit from Groups A, B, C, D

Group A: Gender

ANT343H1, ANT460H1, CAR317H1, CAR325H1, CAS360H1, CHC322H1, CLA219H1, CLA319H1, EAS380H1, EAS388H1, ENG355Y1, FRE304H1, GGR320H1, GGR327H1, HIS202H1, HIS205H1, HIS297Y1, HIS348H1, HIS354H1, HIS363H1, HIS383Y1, HIS406H1, HIS417Y1, HIS446H1, HIS465Y1, HIS481H1, HIS486H1, ITA455H1, JAL355H1, NMC245H1, NMC284H1, NMC484H1, PHL367H1, POL303H1, POL351H1, POL432H1, POL450H1, REN341H1, REN342H1, REN343H1, RLG235H1, RLG311H1, RLG312H1, RLG313H1, SLA248H1, SOC265H1, SOC365H1, SOC366H1, SOC383H1, SOC465H1, SPA382H1, WGS160Y1, WGS260H1, WGS271Y1, WGS273H1, WGS367H1, WGS372H1, WGS373H1

Group B: Race, Anti-Racism and Ethnicity

AFR150Y1, AFR250Y1, AFR322H1, AFR351Y1, AFR352H1, AFR453Y1, ANT204H1, ANT458H1, CAR225H1, CAR226H1, CAR324H1, CAR328H1, CAS310H1, CAR429H1, CDN230H1, CDN280H1, CDN307H1, CDN335H1, ENG270H1, ENG355Y1, ENG356Y1, ENG367H1, ENG368H1, ENG369H1, ENG370Y1, FIN320H1, FRE336H1, GGR240H1, HIS107Y1, HIS208Y1, HIS221H1, HIS222H1, HIS230H1, HIS231H1, HIS245H1, HIS282Y1, HIS297Y1, HIS303H1, HIS338H1, HIS359H1, HIS360H1, HIS361H1, HIS391Y1, HIS392Y1, HIS402H1, HIS413H1, HIS416H1, HIS467H1, HIS470H1, HIS474H1, JHN323H1, JLN327H1, INS261H1, LAS301H1, LAS302H1, LAS401H1, NMC484H1, POL301Y1, POL467H1, RLG344H1, RLG352H1, RLG353H1, SLA222H1, SOC210H1, SPA486H1

Group C: Sexual Diversities

ANT441H1, ANT456H1, ENG273Y1, ENG384Y1, JPS315H1, JSU325H1, NMC384H1, PHL243H1, PSY323H1, RLG313H1, SDS255H1, SDS256H1, SDS345H1, SDS346H1, SDS354H1, SDS355H1, SDS365H1, SDS377H1, SDS378H1, SDS380H1, SDS381H1, SDS382H1, SDS455H1, SDS470H1, SDS475H1, UNI104H1, WGS374H1, WGS376H1

Group D: General Critical Equity

ANT204H1, ANT324H1, ANT327H1, ANT329H1, ANT346H1, ANT348H1, ANT358H1, ANT364H1, ANT366H1, ANT388H1, ANT420H1, ANT426H1, ANT472H1, ANT474H1, ARC233H1, BPM214H1, CAS350H1, CAS420H1, CDN267H1, CDN367H1, CRI487H1, DTS200Y1, DTS401H1, DTS402H1, EAS315H1, EAS439H1, EDS260H1, ENG254H1, ENV430H1, GGR107H1, GGR112H1, GGR240H1, GGR241H1, GGR328H1, GGR329H1, GGR338H1, GGR339H1, GGR357H1, GGR363H1, GGR418H1, GGR419H1, GGR420H1, GGR434H1, GGR452H1, GGR457H1, HAJ453H1, HIS106Y1, HIS318H1, HIS323H1, HIS366H1, HIS369H1, HIS424H1, HIS459H1, HIS472H1, HIS480H1, HIS489H1, HMB203H1, HMB303H1, HMB443H1, HPS324H1, HST330H1, HST411H1, INS200H1, INS201Y1, INS240Y1, INS250H1, INS261H1, INS300Y1, INS301Y1, INS302H1, INS322H1, INS340Y1, INS341H1, INS350H1, INS351Y1, INS353H1, INS354H1, INS360Y1, INS402H1, INS403H1, INS405H1, JFP450H1, JGI216H1, JGU216H1, JNH350H1, JSU237H1, JUG325H1, NMC384H1, PHL273H1, PHL281H1, PHL380H1, PHL383H1, PHL384H1, POL198H1, POL201H1, POL344H1, POL353H1, POL358H1, POL412H1, POL418H1, POL421H1, POL439H1, POL480H1, RLG201H1, RLG317H1, SAS318H1, SOC207H1, SOC220H1, SOC282H1, SOC309H1, SOC363H1, SOC364H1, SOC367H1, SOC479H1, UNI101H1

New College Courses

New College First-Year Foundations

NEW197H1 - Public Intellectual Activism: Theory and Practice

Hours: 24S

Explores the role of the public intellectual in modern and contemporary societies from a theoretical and practical lens. Specifically, investigates the interventions of this capital actor of the social fabric in specific historical junctures of the 20th century and the new millennium with the idea of informing a hands-on approach to participation in civil society debates. Students will be encouraged to examine how “marginalized communities” intervene in the public sphere to effect social change. Term work will include the writing and publishing of an op-ed article, blog, social media posts and a podcast interview. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW198H1 - Myths of French Sensuality

Hours: 24S

A study of French cultural history with respect to the French reputation for the indulgence and refinement of all the senses in visual arts, music, cuisine, perfume and fashion. Supporting mythologies are investigated, along with stereotype formation, exoticism and cultural appropriation. Through various research, writing and presentation techniques, including mini-essays, poster displays and pecha kucha, students will explore what is left of this reputation in an era of globalization. No knowledge of French is necessary. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NEW199H1 - We Are What We Eat: The Example of French Cuisine

Hours: 24S

The historical study of French cuisine reveals a culture rich in controversy and conflicting narratives. These

include contested origins, court intrigues, sensual delight, revolutions, colonialism and slavery, controversial farm practices, haute cuisine, cuisine bourgeoise, regionalism, European regulation. Through various research, writing and presentation techniques, including mini-essays, wikis and pecha kucha, students will explore what is left of French food culture in an era of globalization. No knowledge of French is necessary. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

New One: Learning Without Borders

NEW101H1 - The Everyday Politics of Food

Hours: 12L/24S

How often do we reflect on the environmental, social and economic impact of our everyday food choices? This course offers an introduction to the key concepts, terms and theories that underlie our current food system. The course links the food we eat to global forces and considers how these forces affect food distribution, access and consumption. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW102H1 - Exploring Multilingual Toronto

Hours: 12L/24S

How does language connect and divide people, places and communities? This course considers how interactions between people in Toronto are shaped by language as well as history, economy, architecture and urban landscapes. Students engage with the city both in and out of class to think about a range of questions linked to gender and sexuality, indigeneity, migration, race, ethnicity, and public/private space. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW103H1 - Digital Technology and Society

Hours: 12L/24S

While the internet and other forms of digital technology have created new forms of social relationships and widened access to information, they have also raised concerns. This course explores issues such as surveillance, addiction and bullying as well as the potential of digital technologies (e.g. smart cities, Big Data, and the internet of things). The course engages students' own experience of digital technology. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW104H1 - Creating Community: Art, Identity and Belonging

Hours: 12L/24S

How is art implicated in the process of community building? How does art foster a sense of community identity and belonging? This course explores how communities, in Toronto and beyond, engage a variety of art forms including graffiti, spoken-word, hip-hop, digital art, traditional dance and music to connect people and express community identity. Students will have the opportunity to visit community arts projects. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NEW105H1 - Current Issues Without Borders I

Hours: 12L/24S

This interdisciplinary course addresses a current issue that exemplifies the themes of "Learning Without Borders" in New One. It investigates how this issue is implicated in connecting us with others around the globe; it engages different kinds of knowledge and community perspectives; and integrates students' own experience as related to the issue. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW106H1 - Science, Health and Social Justice

Hours: 12L/24S

How can scientific knowledge and research be mobilized to impact individual and global health? How is health impacted by social, racial and economic inequalities? This

course explores scientific research and practice with special attention to the translation of scientific knowledge in the public sphere, and its ability to inform policies, practices and laws. Students have the opportunity to meet with clinician-scientists, policy-makers, and other professionals connected to the health care system. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW111H1 - Food, Ethics and Sustainability

Hours: 12L/24S

How do we produce and ensure access to nutritious and environmentally sustainable food for all? This course explores what is involved in achieving ethical food production and food security, examining topics such as: the paradox of food waste amidst scarcity, the relationship between food production and climate change, community-led alternatives to dominant food systems, and the role of biotechnology. Research projects allow students to focus on an issue of particular interest. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW112H1 - Language Freedom and Power

Hours: 12L/24S

How do we imagine a balance between the need for communication, freedom of expression, and protection for marginalized groups? This course considers how language shapes and is shaped by the relations of power not only in such sites as colonies, nations and institutions, but also in popular culture and how we communicate online. It explores the key role of language in activism and youth cultures and allows students to focus on an issue of particular interest. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW113H1 - Unpacking Digital Technology

Hours: 12L/24S

What are the social and material implications of the digital technologies we use every day - for the present and for

the future? This course explores how digital technologies have been remaking the world and affecting our lives by tracing their historical development, their social effects, and the impact of their physical presence. It also peers into scenarios of the future in this digital world. Students engage in research on a topic of their own interest. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW114H1 - Art for Social Change

Hours: 12L/24S

How does art contribute to social change? Artistic productions can draw attention to social problems, mobilize support for and symbolize social movements, and inspire new visions for imagined futures. This course will explore case studies of the role of various art forms in relation to past and current social change initiatives. Students will have the opportunity to engage in research on an art project of their choice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

NEW115H1 - Current Issues Without Borders II

Hours: 12L/24S

Explores the social and ethical implications of a current issue exemplifying the themes of "Learning Without Borders." Also considers examples of policy and community organizing responses. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

NEW116H1 - Science and Global Threats

Hours: 12L/24S

What is the role of science in addressing current global threats? What are the possibilities and the limitations of scientific research and knowledge in tackling complex problems such as climate change, pandemics and pollution? In this course, students explore these questions by examining case studies, meeting with specialists in various scientific fields, and engaging in research on a topic of their own choice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

Buddhism, Psychology and Mental Health Courses

BPM100H1 - The Art & Science of Human Flourishing

Hours: 12L/12P

A multi-cultural survey of recipes for a life of "flourishing," through satisfaction, well-being, resilience, and accomplishment, as well as critical scholarship on concepts and practices of human flourishing. Students explore perspectives from the sciences and the humanities about what it means to flourish across diverse cultures and contexts, each week covering a specific theme and set of practices that expand self-awareness, enhance social connectivity, and facilitate purpose and passion.

Breadth Requirements: Thought, Belief and Behaviour (2)

BPM214H1 - Socially Engaged Buddhism

Previous Course Number: NEW214H1

Hours: 24L

Explores how Socially Engaged Buddhism has developed in response to global conversations on systemic oppression, climate justice, equity, decolonization, and trauma. We examine the roots of Engaged Buddhism in countries such as Vietnam, China & Taiwan, Sri Lanka, Thailand, and India, and its transformation into a global movement. Themes include Buddhist environmental activism, and Buddhist protest movements, along with research on the application of Buddhist teachings in healthcare, education, business, and the criminal justice system.

Exclusion: NEW214H1, NEW214Y1

Breadth Requirements: Society and its Institutions (3)

BPM232H1 - Buddhism and Psychology

Previous Course Number: NEW232H1, NEW232Y1

Hours: 36L

An overview of the encounter between Buddhism and psychology over the last century, with cross-disciplinary study of topics such as self, embodiment, impermanence,

suffering, liberation, and insight. We explore how (and why) scientists, psychologists, and Buddhist reformers have reinterpreted Buddhism as “science” and how Buddhist contemplative practices such as mindfulness or compassion training have been transformed and promoted by modern psychology.

Exclusion: NEW232H1, NEW232Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

JNR301H1 - The History of Buddhist Meditation

Hours: 36L

This course will survey historical, cultural, and textual contexts for Buddhist meditative and contemplative practices and techniques.

Prerequisite: RLG206H1/ NEW232Y1/ BPM232H1

Breadth Requirements: Thought, Belief and Behaviour (2)

BPM330H1 - Mindfulness-Informed Interventions for Mental Health

Previous Course Number: NEW330H1

Hours: 36L

An exploration of how mindfulness-based approaches are being used in biomedical mental health interventions. We study mindfulness from historical, societal, structural, cultural, professional, and personal perspectives, with an emphasis on its Buddhist foundations and on concepts of the embodied mind. We look at how recent socio-political phenomena are inspiring diverse applications and adaptations of mindfulness-based interventions.

Prerequisite: Completion of 9.0 credits

Exclusion: NEW330H1

Recommended Preparation: BPM232H1/ NEW232H1/ NEW232Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

BPM332H1 - Buddhism and Psychotherapy

Previous Course Number: NEW332H1

Hours: 36L

A multi-cultural and interdisciplinary study of therapeutically-oriented practices and theories of the

mind. Areas considered include positive psychology, psychoanalysis, cognitive-behavioural therapy, mindfulness meditation, and Jungian psychology, with comparison to various Buddhist teachings and practices.

Exclusion: NEW332H1

Recommended Preparation: BPM232H1/ NEW232Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

BPM333H1 - Buddhism and Cognitive Science

Previous Course Number: NEW333H1

Hours: 36L

An interdisciplinary exploration of how cognitive science may connect with Buddhist terms, concepts, and practices, studying topics such as wisdom, mindfulness, meditation, insight, self-control, flow, or mystical experience.

Exclusion: NEW333H1

Recommended Preparation: BPM232H1/ NEW232Y1/ RLG206H1

Breadth Requirements: Thought, Belief and Behaviour (2)

BPM334H1 - Science of Wisdom: Buddhist and Western Traditions

Previous Course Number: NEW334H1

Hours: 36L

Provides a conceptual and contemplative interdisciplinary exploration of “wisdom traditions.” Buddhist approaches to self-actualization and wisdom will be compared to traditions from Mesopotamia, classical Greece, Christianity, the Renaissance, etc. Coursework includes guided experiential exercises for various traditions.

Exclusion: NEW334H1

Recommended Preparation: BPM232H1/ NEW232Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

BPM335H1 - Meditation and the Body

Previous Course Number: NEW335H1

Hours: 36L

An overview of scientific research on the psychological and neurophysiological effects of meditation. We explore the effects of different meditation styles on brain structure, brain activity, neurochemistry and other biological

processes. Effects of meditation on mental health, pain, social behavior, aging, memory, and cardiovascular function are also a major focus. The use of meditation in the treatment and prevention of illness is critically reviewed.

Prerequisite: Completion of 9.0 credits

Exclusion: NEW335H1

Recommended Preparation: BPM232H1/ NEW232Y1

Breadth Requirements: Living Things and Their Environment (4)

BPM336H1 - Special Topics in Buddhism, Psychology and Mental Health

Previous Course Number: NEW336H1

Hours: 36L

Topics vary from year to year depending on the instructor.

Recommended Preparation: BPM232H1/ NEW232Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

BPM337H1 - Special Topics in Buddhism, Psychology and Mental Health

Previous Course Number: NEW337H1

Hours: 36L

Topics vary from year to year.

Prerequisite: 0.5 credits from the Buddhism, Psychology and Mental Health Core Course Group.

Recommended Preparation: BPM232H1/ NEW232Y1

BPM338H1 - Exploring Mindful Awareness

Previous Course Number: NEW338H1

Hours: 36L

An overview of mindfulness as a systematic investigation of subjective experience, with a survey of classic descriptions and contemporary scientific literature. Students will explore meditative practices in class and maintain a meditation practice outside class.

Prerequisite: BPM232H1/ NEW232Y1/ BPM332H1/ BPM333H1/ BPM334H1/ BPM335H1/ BPM339H1

Exclusion: NEW338H1, NEW432H1 (Advanced Special

Topics in Buddhism, Psychology and Mental Health: Cultivating Consciousness), offered in Fall 2012, Fall 2013, Fall 2014, Summer 2015, and Winter 2016
Breadth Requirements: Thought, Belief and Behaviour (2)

BPM339H1 - Mind, Consciousness and the Self

Previous Course Number: NEW339H1

Hours: 36L

An interdisciplinary study of theories of mind, consciousness, and the self, placing Buddhist traditions in dialogue with scientific theories of the mind in psychology.

Exclusion: NEW339H1

Recommended Preparation: BPM232H1/ NEW232Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

BPM381H1 - Buddhist Perspectives on Current Social Issues

Hours: 36L

Explores teachings and principles in Buddhist canonical sources and considers their application to a wide range of social, political, and environmental crises we are facing today, including climate justice, systemic racism, burnout and mental health. We explore how Buddhist teachings are applied and adapted across different sectors of society including healthcare, education and business.

Exclusion: NEW214Y1/ NEW336H1 (Special Topics in Buddhism, Psychology and Mental Health: Buddhist Perspectives on Current Social Issues), offered in Winter 2020 or Winter 2021/ BPM336H1 (Special Topics in Buddhism, Psychology and Mental Health: Buddhist Perspectives on Current Social Issues), offered in Winter 2022

Recommended Preparation: BPM214H1/ BPM232H1/ NEW214H1/ NEW232H1/ NEW232Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

BPM432H1 - Advanced Research in Meditation, Psychology and Neuroscience

Previous Course Number: NEW432H1

Hours: 36L

This seminar-based course prepares students for advanced research on meditation by exposing them to diverse theories, tools and techniques used in the field. Students will learn about the scientific method and develop critical thinking skills; critique scientific research articles on meditation; practice communication skills; and propose their own original study on meditation.

Recommended Preparation: BPM232H1/ NEW232Y1/ RLG206H1

Breadth Requirements: Thought, Belief and Behaviour (2)

BPM433H1 - Advanced Exploration of Buddhist Psychology and Practice

Previous Course Number: NEW433H1

Hours: 36S

An in-depth, interdisciplinary exploration of how Buddhist teachings are set in conversation with contemporary scientific research on topics such as suffering, wellbeing, and compassion, through a mixture of lecture, textual analysis, discussion, and hands-on experiential practice.

Recommended Preparation: BPM232H1/ NEW232Y1/ RLG206H1

Breadth Requirements: Thought, Belief and Behaviour (2)

BPM438H1 - Mindfulness Meditation: Science and Research

Previous Course Number: NEW438H1

Hours: 36S

An exponential increase of scientific research on aspects of Buddhist theories of mind and mindfulness meditation has contributed to the growing popularity of mindfulness across the sectors of healthcare, education and business. Examines the theoretical and empirical basis of mindfulness-based interventions and applications in healthcare settings and beyond. Critically addresses the roots of mindfulness, current models and adaptations, relevant applications, interventions and outcomes. Quantitative and qualitative research methodology will be reviewed, and conceptual, methodological, statistical, and interpretive limitations of the scientific literature will be discussed. The course aims to build scientific literacy skills through the assessment, critique, and discussion of peer reviewed journal articles.

Prerequisite: A statistics course (e.g. PSY201H1, SOC202H1, STA220H1)

Exclusion: NEW438H1

Recommended Preparation: BPM232H1/ NEW232Y1/ NEW232H1/ NEW331H1/ BPM333H1

Breadth Requirements: The Physical and Mathematical Universes (5)

BPM498H1 - Advanced Topics in Buddhism, Psychology and Mental Health

Hours: 24S

An upper-level seminar. Topics vary from year to year, depending on the instructor.

Prerequisite: BPM232H1, at least 1.0 credit from the BPMH Core Group at the 300+ level. Students who do not meet the prerequisites are encouraged to contact the Program Office.

BPM499H1 - Advanced Topics in Buddhism, Psychology and Mental Health

Hours: 24S

A joint graduate/undergraduate upper-level seminar. Topics vary from year to year, depending on the instructor. Consult the Program Office for course enrolment procedures.

Prerequisite: BPM232H1, at least 1.0 credit from the BPMH Core Group at the 300+ level. Students who do not meet the prerequisites are encouraged to contact the Program Office.

Critical Studies in Equity and Solidarity Courses

CSE240H1 - Introduction to Critical Equity and Solidarity Studies

Previous Course Number: NEW240H1, NEW240Y1

Hours: 24L/12T

An interdisciplinary intersectional interrogation and examination of systemic inequity, structural oppression and social justice in local and global contexts. Provides a foundation for studies in critical equity and solidarity through a concentrated focus on theory and practice as it relates to major concepts, historical perspectives, key debates, lived experience and radical grassroots community resistance to inequity and oppression. Introduces critical equity as a theoretical framework through which to approach social relations of race,

ethnicity, class, gender, sexuality and disability and as a site for thinking through formations of solidarity and transformative social change. The concept of self-defense articulated historically by the Black Panther Party for Self-Defense among others is a key component.

Exclusion: [NEW240H1](#), [NEW240Y1](#)

Breadth Requirements: Society and its Institutions (3)

CSE241Y1 - Introduction to Critical Disability Studies

Previous Course Number: NEW241Y1

Hours: 48L/24T

Draws on an intersectional history and politics of normativity and bodily difference to understand disability as a diverse and materially salient social category that can be used as a lens to better understand systems and experiences of colonization, race, class, gender, age, etc. Explores scenes of disability or 'crip' solidarity, resistance and cultural production, disability D/deaf and mad arts, coalitional movements for disability justice, collective approaches to access and other non-normative ways of knowing and being.

Exclusion: [NEW241Y1](#)

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

CSE270H1 - Community Dis/Engagement and Solidarity

Previous Course Number: NEW270H1

Hours: 24L/12T

An introduction to issues and questions arising from the field of 'community engagement'. Explores the meaning, practices and implications of/for 'community' and 'community (dis)engagement' from multiple perspectives (e.g. the State and its agencies, institutional power, colonial discourse, communities of embodied difference, etc.) Takes a multi-media and arts-based approach to examining self-care from an anti-colonial perspective of central importance in the practice and pedagogy of critical equity and solidarity in the collective struggle for freedom and transformation.

Exclusion: [NEW270H1](#)

Breadth Requirements: Society and its Institutions (3)

CSE339H1 - Special Topics in Equity and Solidarity Studies

Hours: 24L

An upper-level course. Topics of study vary from year to year, depending on the instructor.

Prerequisite: [CSE240H1](#)/ [NEW240H1](#)/ [NEW240Y1](#)

CSE340H1 - Abolition in the Global Context: Theorizing Uprisings and Youth Activism against Policing and Prisons

Previous Course Number: NEW340H1

Hours: 24L

Considers the question: what does abolition mean in a global context? An analysis of how nation-states use prisons, (im)migrant detention centers, black sites, detention camps, military prisons, border checkpoints, refugee camps, walls, and concentration camps, to surveil, contain, and lock up disposable populations, and/or to suppress those that resist state violence. Explores these carceral spaces through a historical and political economic investigation of the processes that have produced these sites. Draws on anti-carceral perspectives on abolition and reform to examine uprisings and political activism, particularly youth activism, against prisons, policing, and forms of militarized, capitalist violence transnationally.

Prerequisite: [CSE240H1](#)/ [NEW240H1](#)/ [NEW240Y1](#)

Exclusion: [NEW340H1](#) (Special Topics in Equity Studies: Youth, Activism and Social Change), offered in Fall 2017, Fall 2018, Fall 2019 and Fall 2020

Breadth Requirements: Society and its Institutions (3)

CSE341H1 - Theorizing Settler Colonialism, Capitalism and Race

Previous Course Number: NEW341H1

Hours: 24S

Provides students with a theoretical background for understanding settler colonialism, capitalist social relations and difference (including race, class, gender, disability and sexuality) and solidarity. Provides an analysis of state violence and the formation of hegemonic power relations. Introduces students to the method of thinking *dialectically* to examine the social world as a set of relations between multiple phenomena occurring at the same time. Articulates an emancipatory politics of knowledge production and strategies of building solidarities to enable the imagination of a different future.

Prerequisite: [CSE240H1](#)/ [NEW240Y1](#)

Exclusion: [NEW341H1](#)

Breadth Requirements: Society and its Institutions (3)

CSE342H1 - Theory and Praxis in Food Security

Previous Course Number: NEW342H1

Hours: 24S

Explores the concept of food security in the context of equity issues related to global food systems. Students participate in food-related field work activities outside of regular classroom time.

Prerequisite: CSE240H1/ NEW240Y1

Exclusion: NEW342H1

Breadth Requirements: Society and its Institutions (3)

CSE344Y1 - Body Matters: Oppression, Solidarity and Justice

Previous Course Number: NEW344Y1

Hours: 48L

Through lectures, small-group discussions and experiential activities, explores how intersecting cultural stories impact our bodies and how stories inscribed upon us shape and constrain our relations, perceptions, experiences and vulnerabilities as embodied subjects. Draws on work in cultural studies, critical race and decolonial theory, gender studies, queer, trans and disability theory and fat studies to ask: Whose bodies matter? How do bodies come to matter? And, how are we - as embodied beings - engaged in acts of rewriting, resisting and otherwise transforming the body means and what it can do?

Prerequisite: CSE240H1/ NEW240Y1/ CSE241Y1

Exclusion: NEW344Y1, NEW344H1, CSE344H1

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

CSE344H1 - Body Matters: Oppression, Solidarity and Justice

Previous Course Number: NEW344H1

Hours: 24L

Through lectures, small-group discussions and experiential activities, explores how intersecting cultural stories impact our bodies and how stories inscribed upon us shape and constrain our relations, perceptions, experiences and vulnerabilities as embodied subjects. Draws on work in cultural studies, critical race and decolonial theory, gender studies, queer, trans and disability theory and fat studies to ask: Whose bodies matter? How do bodies come to matter? And, how are we - as embodied beings - engaged in acts of rewriting,

resisting and otherwise transforming the body means and what it can do?

Prerequisite: CSE240H1/ NEW240Y1/ CSE241Y1

Exclusion: NEW344H1, NEW344Y1, CSE344Y1

Breadth Requirements: Creative and Cultural Representations (1)

CSE345H1 - Equity and Activism in Education

Previous Course Number: NEW345H1

Hours: 24L

Examines contemporary issues in education and schooling from a social justice and equity perspective. Engages with a variety of theoretical frameworks including anti-homophobia education, critical pedagogy, critical race theory, decolonizing knowledges, and intersectionality. Includes an overview of educational activist projects.

Prerequisite: CSE240H1/ NEW240Y1

Exclusion: NEW345H1

Breadth Requirements: Society and its Institutions (3)

CSE346H1 - Community Organizing and Global Solidarity

Previous Course Number: NEW346H1

Hours: 24L

Considers, from an interdisciplinary perspective, the evolution of community organizations and non-profits in the context of neoliberalism, settler colonialism, and imperialism. Examines the inter-woven relations of political economy, local community development, marginalized communities in Canada, and emergent forms of global/local solidarity.

Prerequisite: CSE240H1/ NEW240Y1

Exclusion: NEW346H1

Breadth Requirements: Society and its Institutions (3)

CSE347H1 - Critical Race and Anti-Racism Studies

Previous Course Number: NEW347H1

Hours: 36L

Considers what it means to pursue integrative anti-racism in organizational/institutional settings such as the workplace, justice system, media and education through a study of theories on race and philosophical tenets of anti-racism. Examines the concept of race as a pedagogical

discourse and social-political practice across local, national and global contexts.

Prerequisite: CSE240H1/ NEW240Y1

Exclusion: NEW347H1

Breadth Requirements: Society and its Institutions (3)

CSE348H1 - Special Topics in Equity Studies

Previous Course Number: NEW348H1

Hours: 24L

An upper level course. Topics of study vary from year to year.

Prerequisite: CSE240H1/ NEW240Y1

Breadth Requirements: Society and its Institutions (3)

CSE349H1 - Disability Arts and Culture

Previous Course Number: NEW349H1

Hours: 24S

Explores the work of disabled, mad, sick and/or Deaf artists and considers how disability disrupts - or 'crips' - artistic spaces and cultural movements. Engages with contemporary debates emanating from within these spaces and movements to reveal disability as a dynamic range of bodily practices, aesthetics and relations.

Prerequisite: CSE240H1/ NEW240Y1

Exclusion: NEW349H1

Breadth Requirements: Society and its Institutions (3)

CSE439H1 - Advanced Topics in Equity and Solidarity Studies

Hours: 24S

An upper-level seminar course. Topics of study vary from year to year, depending on the instructor.

Prerequisite: CSE240H1/ NEW240H1/ NEW240Y1 and a 300+ level 0.5 credit from Critical Studies in Equity and Solidarity Core Group

Breadth Requirements: Society and its Institutions (3)

CSE440Y1 - Advanced Special Topics in Equity Studies

Previous Course Number: NEW440Y1

Hours: 72L

An advanced level seminar course. Topics of study vary from year to year.

Prerequisite: CSE240H1/ NEW240Y1 and an additional 0.5 credit at the 300+ level from the Critical Studies in Equity and Solidarity Core Group

Breadth Requirements: Society and its Institutions (3), Thought, Belief and Behaviour (2)

CSE441H1 - Advanced Topics in Equity Studies

Previous Course Number: NEW441H1

Hours: 24S

An advanced level seminar course. Topics vary from year to year.

Prerequisite: CSE240H1/ NEW240Y1

CSE442H1 - Food Systems and the Politics of Resistance

Previous Course Number: NEW442H1

Hours: 36L

Examines the food we eat in the local and global context of food systems, food sovereignty and food movements. Explores the possibilities for food as a catalyst for learning, resistance and social change. Enrolment is by application. Application forms are available on the CSES webpage prior to the start of course enrolment, and are accepted up to the end of the enrolment period, space permitting.

Note: This is a joint graduate/undergraduate course.

Prerequisite: 14.0 credits, CSE240H1/ NEW240Y1, CSE342H1, an additional 0.5 credit at the 300+ level from the Critical Studies in Equity and Solidarity Studies Core Group, a GPA of at least 3.5 in CSE courses

Exclusion: NEW442H1

Breadth Requirements: Society and its Institutions (3)

CSE443H1 - Advanced Special Topics in Equity Studies

Previous Course Number: NEW443H1

Hours: 36S

An advanced level seminar course. Topics of study vary from year to year.

Prerequisite: CSE240H1/ NEW240Y1 and an additional 0.5 Critical Studies in Equity and Solidarity Core Group 300+ level course.

Breadth Requirements: Society and its Institutions (3)

CSE444H1 - Anti-Colonization and the Politics of Violence

Previous Course Number: NEW444H1

Hours: 36S

This advanced seminar interrogates how the theorizations, embodied lived experiences and lived resistance to structural violence can create social, epistemological, ontological and political decolonizing/anti-colonial transformation. The work of Frantz Fanon, John Akomfrah, The Black Panther Party for Self-Defense, Elaine Brown and Assata Shakur amongst others are utilized to search for alternative and oppositional ways to rethink and re-respond to violence. The seminar pursues a nuanced understanding of violence as it relates to de/anticolonization as a lived praxis of resistance and as a practice of self-defense that is grounded in the assertion that there can be no *decolonization* without *anticolonization*.

Prerequisite: CSE240H1/ NEW240Y1 and an additional 0.5 credit at the 300+ level from the Critical Studies in Equity and Solidarity Core Group.

Exclusion: NEW444H1

Breadth Requirements: Society and its Institutions (3)

CSE445H1 - Rethinking Palestine: Colonialism, Revolution and Transnational Solidarity

Hours: 24S

Aims at decolonizing the study of Palestine by providing an overview of Palestine's modern history that is grounded in critical perspectives that challenge dominant scholarly paradigms about Palestine. Provides specific theoretical approaches in the study of Palestinian history, culture and politics through such concepts as settler colonialism, occupation, revolution, nationalism, indigeneity, racial capitalism, imperialism, sovereignty,

collective memory, resistance, liberation and transnational solidarity. Engages with memoirs, oral histories, archival documents, films, poetry, music and literature to understand the historical, political-economic and juridical foundations that have produced a century of oppression, violence, resistance and solidarity within, across and beyond Palestine.

Prerequisite: CSE240H1/ NEW240H1/ NEW240Y1, CSE341H1/ NEW341H1

Breadth Requirements: Society and its Institutions (3)

CSE446H1 - Community Development and Social Change

Previous Course Number: NEW446H1

Hours: 36L

Explores the significance of community development as a social change strategy, through a critical social analysis of local and global case studies and policies.

Prerequisite: 14.0 credits, CSE240H1/ NEW240Y1, CSE346H1, and an additional 0.5 credit at the 300+ level from the Critical Studies in Equity and Solidarity Studies Core Group.

Exclusion: NEW446H1

Breadth Requirements: Society and its Institutions (3)

CSE447H1 - Race, Ethnicity and Educational Praxis

Previous Course Number: NEW447H1

Hours: 36L

An application of critical race, ethnicity and social difference discourse to educational praxis. Examines the articulation of theoretical perspectives to explain particular incidents in society, and to understand forms of institutional racism and emerging minority responses. Explores the implications for pedagogical practices in education.

Prerequisite: CSE240H1/ NEW240Y1, CSE347H1 and one additional 0.5 credit at the 300+ level in CSE courses; permission of Program Director

Exclusion: NEW447H1

Breadth Requirements: Society and its Institutions (3)

CSE448H1 - Disability and the Child

Previous Course Number: NEW448H1

Hours: 24S

Examines a range of historical and present-day meanings associated with the figure of the disabled child. Draws on work emanating from a variety of disciplines, including history, psychology, neuroscience, visual arts, film and literature, and engaging with critical theories of race, class, gender, sexuality and disability, to discuss ideas and issues relevant to the construction of 21st century disabled childhoods. Counters the near monolithic story of disability as threat to the presumed goodness of normative childhood by asking: what alternate depictions and narratives of disabled childhood exist and what can they teach us?

Prerequisite: CSE240H1/ NEW240Y1/ CSE241Y1 and an additional 0.5 Critical Studies in Equity and Solidarity Core Group 300+ level course

Exclusion: NEW448H1

Breadth Requirements: Society and its Institutions (3)

CSE449H1 - Contemporary Theories in Critical Disability Studies

Previous Course Number: NEW449H1

Hours: 24S

Explores competing conceptions, definitions and practices of disability through a range of critical disability theories, including crip-of-colour critique, decolonial theories of disability studies and black feminist disability frameworks. Enacts disability studies as a justice-oriented methodology or practice that has value for understanding and responding to colonial systems of race, class, gender and disability. Interrogates the shape and limits of disability and disability studies to ask the provocative question: what can disability studies do?

Prerequisite: CSE240H1/ NEW240Y1 and 0.5 credit from CSE241Y1/ CSE344Y1/ CSE349H1/ CSE448H1

Exclusion: NEW449H1

Breadth Requirements: Society and its Institutions (3)

JNS450H1 - Sexuality & Disability

Hours: 24S

An interdisciplinary and intersectional approach to the study of disability and sexuality. Students will engage with historical, mainstream and critical discourses and explore complex issues and representations pertaining to disability, sexuality, sexual practices and desire. Draws from a range of writings and cultural texts in queer, crip and sexuality studies.

Prerequisite: 1.0 SDS credit/ NEW240Y1/ NEW240H1/ CSE240H1/ NEW241Y1/ CSE241Y1

Breadth Requirements: Society and its Institutions (3)

CSE469Y1 - Decolonizing Research Methodologies for New Researchers

Previous Course Number: NEW469Y1

Hours: 48S

A feminist/anti-racist/anti-colonial/anti-imperialist exploration of research methods. Examines the work of researchers and scholar-activists who seek to humanize research with communities detrimentally impacted by colonial, imperialist, heteropatriarchal research agendas and processes. Supports students' independent research projects through guidance from the course instructor. Prepares students for graduate studies or research-oriented careers. Enrolment is by application. Application forms are available on the CSES webpage prior to the start of the enrolment period and are accepted up to the end of the enrolment period, space permitting. Not eligible for CR/NCR option.

Prerequisite: CSE240H1/ NEW240Y1 and 1.0 credit from Critical Studies in Equity and Solidarity Core Group 300+ level courses

Exclusion: NEW469Y1

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

CSE499H1 - Advanced Topics in Critical Studies in Equity and Solidarity

Hours: 24S

A joint graduate/undergraduate upper-level seminar. Topics vary from year to year, depending on the instructor. Consult the Program Office for course enrolment procedures.

Prerequisite: CSE240H1, at least 1.0 credit from the CSES Core Group at the 300+ level. Students who do not meet the prerequisites are encouraged to contact the Program Office.

Community Engaged Learning (CEL) Courses

NEW495Y1 - Community Engaged Learning: Critical and Creative Perspectives on the Non-Profit Sector

Hours: 96P/24S

A placement-based course in which students develop knowledge, practice and professional skills appropriate to the social purpose sector while working to support

programming for community partners. The accompanying seminar considers critical social justice issues and creative models of community-engagement practice from grassroots, community and non-profit organizations and other perspectives that support students' experiential, participatory and reflective learning. Not eligible for CR/NCR option.

Enrolment is by application. Detailed application instructions are available on the [CEL website](#).

There are 3 enrolment application options:

1. Apply to an in-person placement (positions posted on the CEL website)
2. Apply to a virtual placement
3. Apply to the course without a placement

Placement positions will be posted on the CEL website by June 1. The application period is June 1 - July 15. Applications will be reviewed on a rolling basis, and match meetings will be held between June 1 - August 31.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Society and its Institutions (3)

NEW496H1 - Community Engaged Learning: Critical and Creative Perspectives on the Non-Profit Sector

Hours: 48P/12S

A placement-based course in which students develop knowledge, practice and professional skills appropriate to the social purpose sector while working to support programming for community partners. The accompanying seminar considers critical social justice issues and creative models of community-engagement practice from grassroots, community and non-profit organizations and other perspectives that support students' experiential, participatory and reflective learning. Not eligible for CR/NCR option.

Enrolment is by application. Detailed application instructions are available on the [CEL website](#).

There are 3 enrolment application options:

1. Apply to an in-person placement (positions posted on the CEL website)
2. Apply to a virtual placement
3. Apply to the course without a placement

Placement positions will be posted on the CEL website by June 1. The application period is June 1 - July 15. Applications will be reviewed on a rolling basis, and match meetings will be held between June 1 - August 31.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Society and its Institutions (3)

NEW497Y1 - Critical and Creative Perspectives on Community Based Research (CBR): An Advanced Seminar

Hours: 96P/24S

Explores how research is conducted and mobilized by marginalized communities as a form of resistance, knowledge production and social change. Examines the foundations of empirical research, the role of the university as a site of research activity and the ethics and methods of community-based research. Informed by examples of grassroots research projects from Black, Indigenous and racialized communities locally, nationally and globally. In this course, students engage in community-based and participatory action research projects with community partners. Not eligible for CR/NCR option.

Enrolment is by application. Detailed application instructions available on the [CEL website](#).

There are 3 enrolment application options:

1. Apply to an in-person placement (positions posted on the CEL website)
2. Apply to a virtual placement
3. Apply to the course without a placement

Placement positions will be posted on the CEL website by June 1. The application period is June 1 - July 15. Applications will be reviewed on a rolling basis, and match meetings will be held between June 1 - August 31.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Society and its Institutions (3)

NEW498H1 - Critical and Creative Perspectives on Community Based Research (CBR): An Advanced Seminar

Hours: 48P/12S

Explores how research is conducted and mobilized by marginalized communities as a form of resistance, knowledge production and social change. Examines the foundations of empirical research, the role of the university as a site of research activity and the ethics and methods of community-based research. Informed by examples of grassroots research projects from Black, Indigenous and racialized communities locally, nationally and globally. In this course, students engage in community-based and participatory action research

projects with community partners. Not eligible for CR/NCR option.

Enrolment is by application. Detailed application instructions available on the [CEL website](#).

There are 3 enrolment application options:

1. Apply to an in-person placement (positions posted on the CEL website)
2. Apply to a virtual placement
3. Apply to the course without a placement

Placement positions will be posted on the CEL website by June 1. The application period is June 1 - July 15. Applications will be reviewed on a rolling basis, and match meetings will be held between June 1 - August 31.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Society and its Institutions (3)

Independent Studies Courses

NEW299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

NEW390Y1 - New College Independent Studies

New College Independent Study courses are designed both to complement regular offerings in New College Programs and to provide an opportunity for New College students in any program to enrich their studies. The normal expectation of a project course is that the student, aided and advised by their supervisor, will read relevant literature, and plan, analyze and report on an original and independent investigation of an appropriate topic. Enrolment is by application. Written applications, which include an application form and detailed proposal, should be made through the Programs Office for approval by the Vice Principal of New College or a designate by April 15 for the Summer Session; by July 15 for the Fall Term; or by November 15 for the Winter Term. Should the deadline fall on a weekend, applications will be accepted until the following Monday. Students will be notified of the acceptance or rejection of an application. If the project requires ethics approval, please be advised that you should find and consult with a supervisor about meeting this requirement at least a semester in advance of these deadlines. For more information and application forms,

please see the Independent Studies website: <http://www.newcollege.utoronto.ca/new-college-academic-programs/independent-studies>. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits

NEW391H1 - New College Independent Studies

New College Independent Study courses are designed both to complement regular offerings in New College Programs and to provide an opportunity for New College students in any program to enrich their studies. The normal expectation of a project course is that the student, aided and advised by their supervisor, will read relevant literature, and plan, analyze and report on an original and independent investigation of an appropriate topic. Enrolment is by application. Written applications, which include an application form and detailed proposal, should be made through the Programs Office for approval by the Vice Principal of New College or a designate by April 15 for the Summer Session; by July 15 for the Fall Term; or by November 15 for the Winter Term. Should the deadline fall on a weekend, applications will be accepted until the following Monday. Students will be notified of the acceptance or rejection of an application. If the project requires ethics approval, please be advised that you should find and consult with a supervisor about meeting this requirement at least a semester in advance of these deadlines. For more information and application forms, please see the Independent Studies website: <http://www.newcollege.utoronto.ca/new-college-academic-programs/independent-studies>. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits

NEW490Y1 - New College Independent Studies

New College Independent Study courses are designed both to complement regular offerings in New College Programs and to provide an opportunity for New College students in any program to enrich their studies. The normal expectation of a project course is that the student, aided and advised by their supervisor, will read relevant literature, and plan, analyze and report on an original and independent investigation of an appropriate topic. Enrolment is by application. Written applications, which include an application form and detailed proposal, should be made through the Programs Office for approval by the Vice Principal of New College or a designate by April 15 for the Summer Session; by July 15 for the Fall Term; or by November 15 for the Winter Term. Should the deadline fall on a weekend, applications will be accepted until the following Monday. Students will be notified of the

acceptance or rejection of an application. If the project requires ethics approval, please be advised that you should find and consult with a supervisor about meeting this requirement at least a semester in advance of these deadlines. For more information and application forms, please see the Independent Studies website: <http://www.newcollege.utoronto.ca/new-college-academic-programs/independent-studies>. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits

NEW491H1 - New College Independent Studies

New College Independent Study courses are designed both to complement regular offerings in New College Programs and to provide an opportunity for New College students in any program to enrich their studies. The normal expectation of a project course is that the student, aided and advised by their supervisor, will read relevant literature, and plan, analyze and report on an original and independent investigation of an appropriate topic. Enrolment is by application. Written applications, which include an application form and detailed proposal, should be made through the Programs Office for approval by the Vice Principal of New College or a designate by April 15 for the Summer Session; by July 15 for the Fall Term; or by November 15 for the Winter Term. Should the deadline fall on a weekend, applications will be accepted until the following Monday. Students will be notified of the acceptance or rejection of an application. If the project requires ethics approval, please be advised that you should find and consult with a supervisor about meeting this requirement at least a semester in advance of these deadlines. For more information and application forms, please see the Independent Studies website: <http://www.newcollege.utoronto.ca/new-college-academic-programs/independent-studies>. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits

Interdisciplinary Courses

NEW271H1 - Interdisciplinary Special Topics

Hours: 24L

Topics vary from year to year depending on the instructor. Consult timetable for current offering information.

JQR360H1 - The Canadian Census: Populations, Migrations and Demographics

Hours: 24L/12T

Examines the Canadian population census through the experience of diasporic groups in Canada. Approaches the census as a statistical tool, an historical source and an ideological project of citizenship and nationalism. Uses census data to explore mathematical and statistical concepts and to integrate numerical ways of thinking with qualitative analysis. (Jointly sponsored by African Studies, Diaspora and Transnational Studies, Caribbean Studies, Critical Studies in Equity and Solidarity, and Latin American Studies).

Prerequisite: [DTS200Y1](#)/ [HIS230H1](#)/ [HIS231H1](#)/ [LAS200H1](#)/ [LAS201H1](#)/ [CAR120Y1](#)/ [AFR150Y1](#)/ [CAR220H1](#)/ [CAR221H1](#)/ [NEW224Y1](#)/ [CAR225H1](#)/ [CAR226H1](#)/ [CSE240H1](#)/ [NEW240Y1](#)

Breadth Requirements: Society and its Institutions (3)

NEW370Y1 - Interdisciplinary Special Topics

Hours: 48L

Topics vary from year to year depending on the instructor.

NEW371H0 - International Field Course

Provides opportunities for students to engage in an international experiential learning program related to their academic areas of study. The course involves seminars, group exercises, site visits and a final project. Some sessions will be held in Toronto prior to and following the trip. Not eligible for CR/NCR option.

Prerequisite: Foundational course from participating programs (Indigenous Studies; African Studies; Buddhism, Psychology and Mental Health; Caribbean Studies; Equity Studies; Human Biology)

NEW372H1 - Interdisciplinary Special Topics

Hours: 24L

Topics vary from year to year depending on the instructor. Consult timetable for current offering information.

NEW398Y0 - Research Excursion

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities...>. Not eligible for CR/NCR option.

NEW471H1 - Interdisciplinary Special Topics

Hours: 24S

Topics vary from year to year depending on the instructor.

Interdisciplinary Courses in Jungian Theory

NEW302Y1 - C.G. Jung: Stories, Patterns, Symbols

Hours: 48L/24S

Impact of Jung's analytical psychology, critical methodology and interpretative practice on issues in religion, anthropology, art and literature, popular culture, gender studies and postmodernist critique. Theoretical studies include traditional Jungian and contemporary post-Jungian texts together with feminist and non-Jungian sources.

Prerequisite: 4.0 credits, at least 1.0 of which should be in the HUM/BR=1/2

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

NEW303H1 - Hypotheses of the Unconscious

Hours: 12L/12S

Current discussions of the hypotheses, starting with Freud's and Jung's hypotheses, especially Jung's collective unconscious; critical examination through retrospective analysis of the evolution and development of the concept in works from philosophy, psychology, poetry, ethnology, science and popular culture that anticipated, influenced or were influenced by the work of Freud and Jung, post-Freudians and post-Jungians.

Prerequisite: 4.0 credits, at least 1.0 of which should be in the HUM/BR=1/2

Recommended Preparation: NEW302Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

NEW402Y1 - Advanced Special Topics in Jungian Theory

Hours: 48S

Topics vary from year to year, depending on the interests of students and instructors.

Prerequisite: Permission of instructor

NEW403H1 - Advanced Special Topics in Jungian Theory

Hours: 24S

Topics vary from year to year depending on the interests of students and instructors.

Prerequisite: Permission of instructor

International Foundation Program Courses

IFP100H1 - Themes in World History

Hours: 24L

Surveys the development of human societies from their origins to the present. Topics may include the environment, cultural development and interaction, the creation and nature of belief systems, political, economic and social structures, gender relations, and the relationship between global patterns and local development. Restricted to students enrolled in the summer offering of the International Foundation Program (IFP). Not eligible for CR/NCR option.

Exclusion: IFP100Y1/ UTP100H1

Breadth Requirements: Society and its Institutions (3)

UTP100H1 - Themes in World History

Hours: 24L

Surveys the development of human societies from their origins to the present. Topics may include the environment, cultural development and interaction, the creation and nature of belief systems, political, economic and social structures, gender relations, and the relationship between global patterns and local development. Restricted to students enrolled in the UTPrep program.

Exclusion: IFP100H1/ IFP100Y1

Breadth Requirements: Society and its Institutions (3)

IFP100Y1 - Themes in World History

Hours: 48L/36T

Surveys the development of human societies from their origins to the present using examples from across the world. Topics may include the environment, cultural development and interaction, the creation and nature of belief systems, political, economic and social structures, gender relations, and the relationship between global patterns and local developments. Enrolment is restricted to students registered in the International Foundation Program. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3),
Thought, Belief and Behaviour (2)

Nutritional Sciences

Faculty List

Professors Emeriti

M.C. Archer, MA, PhD, D Sc
 G.E. Eyssen, MSc, PhD
 C.E. Greenwood, MSc, PhD
 D. Gurfinkel, PhD
 K.N. Jeejeebhoy, PhD
 M. Kronl, PhD
 P.B. Pencharz, MB, ChB, PhD, FRCPC
 A.V. Rao, MSc, PhD
 L.U. Thompson, MSc, PhD
 T.M.S. Wolever, MA, BM, BCh, MSc, PhD

Chair

D.L. O'Connor, PhD, RD

Professors

G.H. Anderson, MSc, PhD
 R.P. Bazinet, PhD
 A. El-Sohehy, PhD
 A.J. Hanley, PhD
 D.J.A. Jenkins, MA, DM, D Phil, D Sc
 M.R. L'Abbé, PhD
 D. Sellen, PhD
 V. Tarasuk, PhD
 V. Vuksan, MSc, D Sc

Associate Professors

E.M. Comelli, PhD
 J. Sievenpiper, MD, PhD, FRCPC

Assistant Professors

J. Beaudry, PhD
 V. Malik, ScD
 A. Metherel, PhD
 K. Miliku, MD, PhD

Introduction

Nutritional Sciences represents an exciting and challenging area of study of a truly interdisciplinary nature. Understanding of the impact of nutrition on health and its role in disease is based upon a knowledge of the metabolic processes involved (nutrient requirements and utilization, food additive metabolism and safety), of the chemistry of foods (food preservation, food production) and of social and behavioural factors (determinants of food selection). Thus, in this program, the physical, biological and social sciences are integrated in consideration of the national and international goals of achieving optimal health through proper nutrition.

Most career opportunities in Nutritional Sciences require training beyond the undergraduate level. The Major Program provides excellent preparation for entry into postgraduate studies in nutrition research or for a professional faculty such as Medicine and Dentistry.

Please note that this Department does not offer an undergraduate dietetics program. Students interested in this qualification should contact [Dietitians of Canada](#) for information.

Students interested in applying to the [MPH: Nutrition and Dietetics Program](#), through the Dalla Lana School of Public Health, are advised to contact the program director during their second year of undergraduate studies.

Undergraduate Coordinator:
 Dr. Ahmed El-Sohehy

Enquiries:
 Medical Sciences Building, 5th Floor, Room 5255 (416-978-2747)
 Website: <https://nutrisci.med.utoronto.ca/undergraduate-education>

Nutritional Sciences Programs

Nutritional Sciences Major (Science Program) - ASMAJ1068

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade/Grade Average

A minimum grade average in required courses or their equivalents is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- [BIO120H1](#), [BIO130H1](#)
- ([CHM135H1](#), [CHM136H1](#)) / ([CHM138H1](#), [CHM139H1](#)) / [CHM151Y1](#)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60% in each course, or a final grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses

required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at dns.admin@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Completion Requirements:

Nutritional Sciences Courses

NFS284H1 - Basic Human Nutrition

Hours: 36L

An introductory course to provide the fundamentals of human nutrition to enable students to understand and think critically about the complex interrelationships between food, nutrition, health and the environment.

Exclusion: HLTB11H3

Recommended Preparation: ([BIO120H1](#), [BIO130H1](#))/
[BIO150Y1](#); ([CHM138H1](#), [CHM139H1](#))/([CHM135H1](#),
[CHM136H1](#))/ [CHM151Y1](#)

Breadth Requirements: Living Things and Their Environment (4)

NFS301H1 - Nutrition Literacy: Sorting Science from Snake Oil

Hours: 36L

This course will help students learn how to recognize the strengths and limitations of various nutrition research methods, find reliable nutrition information on the Internet and develop systematic thinking skills to critically evaluate the quality of nutrition information in both the scientific literature and popular media.

Prerequisite: [NFS284H1](#)

Breadth Requirements: Living Things and Their Environment (4)

First Year:

([BIO120H1](#), [BIO130H1](#)); ([CHM135H1](#), [CHM136H1](#))/(
[CHM138H1](#), [CHM139H1](#))/ [CHM151Y1](#)

Second Year:

[NFS284H1](#); [BCH210H1](#); ([STA220H1](#), [STA221H1](#))/(
[PSY201H1](#), [PSY202H1](#))

Third Year:

([PSL300H1](#), [PSL301H1](#))/ [PSL302Y1](#); [CSB349H1](#)/
[PSL350H1](#)/ [BCH311H1](#); any two of: [NFS382H1](#),
[NFS386H1](#), [NFS301H1](#); [NFS302H1](#); [NFS394Y1](#)

Fourth Year:

Any three of: [NFS400H1](#), [NFS484H1](#), [NFS485H1](#),
[NFS486H1](#), [NFS487H1](#), [NFS488H1](#), [NFS489H1](#),
[NFS490H1](#), [NFS494Y1](#)

NFS302H1 - Nutrition, Athletics, Performance and Behaviour

Hours: 36L

This course will give an overview of the emerging and advancing role of chronic diet and supplements in athletics, performance and behavior.

Prerequisite: [NFS284H1](#)

Exclusion: [KPE328H1](#)

Breadth Requirements: Living Things and Their Environment (4)

NFS382H1 - Vitamin and Mineral Metabolism Throughout the Life Cycle

Hours: 36L

Micronutrients are essential for health throughout the life cycle. This course examines the role of micronutrients during development and ageing with some emphasis on disease prevention and pathogenesis. Students develop critical appraisal skills, an understanding of the principles of study design and learn to write in a scientific style.

Prerequisite: [NFS284H1](#)

Breadth Requirements: Living Things and Their Environment (4)

NFS386H1 - Food Chemistry

Hours: 36L

Structure, composition and chemical and biochemical reactions in foods during postharvest/postmortem, processing, storage and utilization. Implications for organoleptic properties, nutritional value, toxicity and human health.

Prerequisite: CHM138H1/ CHM139H1/ CHM135H1/ CHM136H1

Recommended Preparation: NFS284H1

Breadth Requirements: Living Things and Their Environment (4)

NFS394Y1 - Research Course in Nutritional Science

Hours: 144P

Research experience under the supervision of a Departmental staff member. The course entails designing and carrying out a small research project and the preparation and presentation of both a research proposal and a final report. Note that the research project NFS394Y1 requires the prior consent of a staff member who will supervise the project and departmental approval before enrolment. The student is responsible for locating a supervisor. Not eligible for CR/NCR option.

Prerequisite: NFS284H1, Permission of Department and Project Supervisor

Breadth Requirements: Living Things and Their Environment (4)

NFS400H1 - Functional Foods and Nutraceuticals in Human Nutrition

Hours: 36L

This course will demonstrate the rationale, including health benefits, development and marketing of functional foods and nutraceuticals.

Prerequisite: BCH210H1, NFS284H1, (PSL300H1, PSL301H1)/ PSL302Y1

Recommended Preparation: CSB349H1/ PSL350H1/ BCH311H1, NFS386H1

Breadth Requirements: Living Things and Their Environment (4)

NFS484H1 - Advanced Nutrition

Hours: 24L/12T

Physiological and biochemical features of nutrient needs. The roles of nutrients in the development and adaptability

of the whole body, organs and cells. Interpretation of current research data.

Prerequisite: BCH210H1, CSB349H1/ PSL350H1/ BCH311H1, NFS284H1, (PSL300H1, PSL301H1)/ PSL302Y1, (STA220H1, STA221H1/ JBS229H1) or permission of instructor

Breadth Requirements: Living Things and Their Environment (4)

NFS485H1 - Diet, Microbiome & Health

Hours: 36L

Provides an integrated approach to how prokaryotes modulate nutrient availability and how they interact with the host to impact human health from a molecular perspective.

Prerequisite: BCH210H1, CSB349H1/ PSL350H1/ BCH311H1/ MGY311Y1, NFS284H1, (PSL300H1, PSL301H1)/ PSL302Y1 or permission of the instructor

Breadth Requirements: Living Things and Their Environment (4)

NFS486H1 - Obesity: Metabolic and Clinical Aspects

Hours: 36L

Obesity and its co-morbidities illustrated with pathophysiological and biochemical principles and clinical case studies.

Prerequisite: BCH210H1, NFS284H1, (PSL300H1, PSL301H1)/ PSL302Y1

Recommended Preparation: CSB349H1/ PSL350H1/ BCH311H1, (STA220H1, STA221H1)

Breadth Requirements: Living Things and Their Environment (4)

NFS487H1 - Nutrigenomics and Personalized Nutrition

Hours: 36L

The impact of the human genome on nutrition research. Experimental approaches to investigating gene-diet interactions. Understanding how genetic variability affects nutrient response, and how dietary factors regulate gene expression. Application of the various 'omics' technologies to nutrition research as well as exploring the social, legal and ethical issues associated with direct-to-consumer marketing of genetic tests for personalized nutrition.

Prerequisite: NFS284H1, CSB349H1/ PSL350H1/ BCH311H1

Breadth Requirements: Living Things and Their Environment (4)

NFS488H1 - Nutritional Toxicology

Hours: 36L

Occurrence, mechanism of action, safety and health implications of chemicals naturally present in or added to foods. Interactions of nutrients and toxicants and the effects on their metabolism and utilization. Food safety evaluation and regulatory control.

Prerequisite: BCH210H1, NFS284H1

Breadth Requirements: Living Things and Their Environment (4)

NFS489H1 - Nutritional Neurosciences

Hours: 36L

This course provides an integrated approach to how brain function regulates and in turn is regulated by nutrition from a biochemical perspective.

Prerequisite: BCH210H1, BCH311H1/ CSB349H1/ PSL350H1, NFS284H1, PSL302Y1/ (PSL300H1, PSL301H1)

Breadth Requirements: Living Things and Their Environment (4)

NFS490H1 - International and Community Nutrition

Hours: 36L

This course focuses on current issues in international and community nutrition including global and domestic food security, micronutrient deficiencies and other forms of undernutrition, maternal and infant/child nutrition, dietary guidance, and food and nutrition policy. The course will consider the environmental, sociopolitical, cultural and biosocial contexts of nutrition.

Prerequisite: NFS284H1

Recommended Preparation: GGR107Y1/ POL103Y1/ SOC101Y1

Breadth Requirements: Society and its Institutions (3)

NFS494Y1 - Research Projects in Nutritional Sciences

Hours: 144P

Research experience under the supervision of a Departmental staff member. The course entails designing and carrying out a small research project and the preparation and presentation of both a research proposal and a final report. Note that the research project NFS494Y1 requires the prior consent of a staff member who will supervise the project and departmental approval before enrolment. The student is responsible for locating a supervisor. Not eligible for CR/NCR option.

Prerequisite: NFS284H1, Permission of Department and Project Supervisor

Peace, Conflict and Justice

Faculty List

Associate Professors

N. Bertoldi, MEd, MA, PhD

C. Jung, MA, PhD (George Ignatieff Chair of Peace and Conflict Studies)

T. Kramarz, MA, MSc, PhD

Assistant Professor

P. Salardi, BA, MA, PhD

Introduction

The Trudeau Centre for Peace, Conflict and Justice houses the Peace, Conflict and Justice program at the Munk School of Global Affairs and Public Policy.

The Peace, Conflict and Justice program provides undergraduates with an interdisciplinary education covering three central pillars: the meanings and causes of conflict, peace, and justice; the lived experiences of living in the context of conflict and struggles for peace and justice; and approaches to resolving conflict and producing peace and/or justice. The topics of study are wide-ranging, including the study of peacemaking and peace-building, interstate war and intrastate conflicts, insurgencies, revolutions and rebellions, ethnic strife, global justice, and negotiation theory. In doing so, we address some of the world's most urgent humanitarian problems, and train students to deeply analyze these issues across several levels of analysis, from the local through the national and the global. Students interested in this program are strongly encouraged to consider pursuing a double major in related fields, especially International Relations. Other related fields include Economics, Political Science, Sociology, Psychology, Anthropology, Geography, History, Diaspora and Transnational Studies, Ethics, Society and Law and Women and Gender Studies.

Contact Information

Simone DeFacendis, Program and Events Coordinator

Email: pcj.program@utoronto.ca

Phone: 416-946-0326

<https://munkschool.utoronto.ca/trudeaucentre/>

Peace, Conflict and Justice Programs

Peace, Conflict and Justice Specialist (Arts Program) - ASSPE1228

The Peace, Conflict and Justice at the Munk School of Global Affairs & Public Policy is an interdisciplinary academic program that focuses on conditions, causes and effects of conflict, peace, and justice. In this program, students analyze socio-political conditions and policies, economic and cultural phenomena, historical events, and empirical research related to peace, conflict, and justice. Students also have opportunities to assess, conceptualize, and generate solutions that pave the way for conflict resolution, promote peace, and achieve greater justice. The topics of study are diverse, including the study of peacemaking and peacebuilding, human rights, legacies of war, interstate war and intrastate conflict, violence in protests and collective action, ethnic conflict, inequities in social policies such as health, gender, and education. Students select from a wide range of core and elective courses related to PCJ. The program has a strong emphasis on collaboration and teamwork through involvement in hands-on, real-life experiential learning. Moreover, students strengthen their research skills through training in various research methodologies. Our academic program allows students to understand issues of peace, conflict, and justice at multiple levels - local, national, regional, and global. Students interested in this program may consider pursuing a double major in related fields, such as International Relations, Political Science, Economics, Geography, Sociology, Anthropology, History, Environmental Studies, Indigenous Studies, Diaspora and Transnational Studies, Ethics, Society and Law, and Women and Gender Studies.

Enrolment Requirements:

While we welcome students with diverse experiences, this is a limited enrollment program that can accommodate a limited number of students. Admission is determined by a range of criteria, including the student's academic records from their first year of studies, short essays, a writing sample, a resume, and a video submission. In the past, enrollment in Peace, Conflict and Justice has proven to be extremely competitive across all of these dimensions, and an applicant's success in any one of these dimensions does not necessarily guarantee admission to the program in any given year.

Completion Requirements:

(12.0 credits)

1. 1.0 credit from gateway 100-level courses. Possibilities include but are not limited to: (MUN100H1 and MUN110H1) or (CAS100H1 and MUN120H1) or (AMS100H1 and MUN120H1) or (ECO101H1 and ECO102H1) or ECO105Y1 or HIS101Y1 or (POL107H1 and POL109H1) or AFR150Y1 or WGS160Y1 or TRN152Y1 or (SOC100H1 and SOC150H1).

Other introductory courses in relevant disciplines are also eligible to meet this 100-level course requirement; please contact the program director for discussion and approval.

2. 3.5 credits of the following core PCJ courses, all of which are required: PCJ200H1, PCJ210H1, PCJ310H1/PCJ260H1, PCJ350H1/PCJ261H1, PCJ362H1, PCJ410H1, MUN200H1.

3. 2.5 additional credits in Peace, Conflict and Justice courses (i.e. PCJ prefix classes) at the 300 or 400 level, including at least 1.0 at the 400 level.

4. 5.0 credits of complementary courses, i.e., courses relevant to PCJ and offered by other programs. Of these 5.0 credits, at least 2.0 must be at the 300-level or above.

Complementary courses include but are not limited to the following. Other courses are also eligible to meet this requirement; please contact the program director for discussion and approval.

AFR298H1, AFR460H1, AMS320H1, CAR324H1, CAS310H1, CJS220H1, CSE240H1, CSE342H1, CSE346H1, DTS200Y1, EAS315H1, ECO200Y1, ECO202Y1, ECO220Y1, ENG273Y1, ENV101H1, GGR240H1, GGR419H1, HIS231H1, HIS397H1, HIS401H1, INS201Y1, INS352H1, JAH350H1, JPR364H1, JPS315H1, LAS310H1, MUN101H1/MUN102H1, MUN200H1, PHL373H1, PHL378H1, POL201H1, POL212H1, POL353H1, POL412H1, POL417H1, RLG309H1, SDS465H1, SOC210H1, SOC249H1, SOC367H1, TRN250Y1, TRN312H1, WGS273H1, WGS340H1.

5. Within the 12.0 credits required for the specialist program, 3.0 credits must focus on a particular global region and 3.0 credits must focus on a theme related to peace, conflict and justice.

Regional Studies Focus:

3.0 credits focused on a particular global region. Examples include Africa, Asia, Canada, the Caribbean, Europe, Latin America, the Middle East, Slavic countries or the United States. This is not a complete list. Other regions are also eligible to meet this requirement; to propose an alternative, please contact the program director for discussion and approval.

Thematic Focus:

3.0 credits focused on a particular theme related to peace, conflict and justice. Examples include negotiation and

conflict resolution, peacemaking and peacebuilding, environmental justice, diplomatic history, reparation and reconciliation, colonialism and decolonization, economic development, interstate war, intrastate conflict, legacies of war and conflict.

This is not a complete list. Other themes are also eligible to meet this requirement; to propose an alternative, please contact the program director for discussion and approval.

Peace, Conflict and Justice Major (Arts Program) - ASMAJ1228

The Peace, Conflict and Justice at the Munk School of Global Affairs & Public Policy is an interdisciplinary academic program that focuses on conditions, causes and effects of conflict, peace, and justice. In this program, students analyze socio-political conditions and policies, economic and cultural phenomena, historical events, and empirical research related to peace, conflict, and justice. Students also have opportunities to assess, conceptualize, and generate solutions that pave the way for conflict resolution, promote peace, and achieve greater justice. The topics of study are diverse, including the study of peacemaking and peacebuilding, human rights, legacies of war, interstate war and intrastate conflict, violence in protests and collective action, ethnic conflict, inequities in social policies such as health, gender, and education. Students select from a wide range of core and elective courses related to PCJ. The program has a strong emphasis on collaboration and teamwork through involvement in hands-on, real-life experiential learning. Moreover, students strengthen their research skills through training in various research methodologies. Our academic program allows students to understand issues of peace, conflict, and justice at multiple levels - local, national, regional, and global. Students interested in this program may consider pursuing a double major in related fields, such as International Relations, Political Science, Economics, Geography, Sociology, Anthropology, History, Environmental Studies, Indigenous Studies, Diaspora and Transnational Studies, Ethics, Society and Law, and Women and Gender Studies.

Enrolment Requirements:

While we welcome students with diverse experiences, this is a limited enrollment program that can accommodate a limited number of students. Admission is determined by a range of criteria, including the student's academic records from their first year of studies, short essays, a writing sample, a resume, and a video submission. In the past, enrollment in Peace, Conflict and Justice has proven to be extremely competitive across all of these dimensions, and an applicant's success in any one of these dimensions does not necessarily guarantee admission to the program in any given year.

Completion Requirements:

(7.5 credits)

1. 1.0 credit from gateway 100-level courses. Possibilities include but are not limited to: (MUN100H1 and MUN110H1) or (CAS100H1 and MUN120H1) or (AMS100H1 and MUN120H1) or (ECO101H1 and ECO102H1) or ECO105Y1 or HIS101Y1 or (POL107H1 and POL109H1) or AFR150Y1 or WGS160Y1 or TRN152Y1 or (SOC100H1 and SOC150H1).

Other introductory courses in relevant disciplines are also eligible to meet this 100-level course requirement; please contact the program director for discussion and approval.

2. 2.0 credits comprised of the following core PCJ courses, all of which are required: PCJ200H1, PCJ210H1, PCJ350H1/ PCJ261H1, PCJ362H1.

3. 2.0 additional credits in Peace, Conflict and Justice courses (i.e. PCJ prefix classes) at the 300 or 400 level, including at least 0.5 at the 400 level.

4. An additional 2.5 credits of PCJ-coded courses or complementary courses offered in other programs. Of these 2.0 credits, at least 1.0 must be at the 300-level or above. Complementary courses include but are not limited to the following; other relevant courses are eligible on the approval of the program director:

AFR298H1, AFR460H1, AMS320H1, CAR324H1, CAS310H1, CJS220H1, CSE240H1, CSE342H1, CSE346H1, DTS200Y1, EAS315H1, ECO200Y1, ECO202Y1, ECO220Y1, ENG273Y1, ENV101H1, GGR240H1, GGR419H1, HIS231H1, HIS397H1, HIS401H1, INS201Y1, INS352H1, JAH350H1, JPR364H1, JPS315H1, LAS310H1, MUN101H1/ MUN102H1, MUN200H1, PHL373H1, PHL378H1, POL201H1, POL212H1, POL353H1, POL412H1, POL417H1, RLG309H1, SDS465H1, SOC210H1, SOC249H1, SOC367H1, TRN250Y1, TRN312H1, WGS273H1, WGS340H1.

Peace, Conflict and Justice Courses

PCJ200H1 - Introduction to Peace, Conflict and Justice

Hours: 24L/12T

This course introduces students to the theories, concepts, histories, and actors that are fundamental to the field of peace, conflict, and justice. Students will discuss meanings, causes, obstacles, and sustainability of peace and justice through the discussion of historical and contemporary cases from around the world. Stemming from the interdisciplinary aspect of the field, students will learn a wide range of theoretical, empirical, and policy-oriented perspectives on thematic topics such as protection and violation of human rights, social and economic inequalities, and causes of violence and oppression. This course is intended for first year PCJ students and it serves as a gateway for all other courses offered in the PCJ program. This course is a requirement for PCJ majors and specialists.

Prerequisite: Admission to PCJ

Breadth Requirements: Society and its Institutions (3)

PCJ210H1 - Research Methods in Peace, Conflict and Justice

Hours: 24L/12T

This course introduces students to key research methods employed in the study of peace, conflict and justice. It considers both qualitative, quantitative, and mixed-methods research frameworks prominent in PCJ research drawn from a range of disciplines and approaches. Some methods explored in this course might include: descriptive analysis, correlational studies, bivariate or multivariate regression models, surveys, interviews, focus groups, and country case studies. The class teaches students how to read, understand and critique these frameworks and the scholarship they influence/produce. Concepts of internal and external validity, inductive and deductive reasoning, and ethics in research will also be covered. This course is a requirement for PCJ majors and specialists.

Prerequisite: Admission to PCJ

Breadth Requirements: Society and its Institutions (3)

PCJ260H1 - Introduction to Peace, Conflict and Justice I

Hours: 24L/12S

This course introduces students to reading, interpreting, and communicating data relevant to issues in peace, conflict and justice. Students will develop concrete skills such as understanding data sources in conflict and justice,

exploring applications of data, and methods of data collection. They will reflect on how social constructs can be operationalized into variables that can be employed for qualitative and quantitative analysis in research and policy, and learn how to use visualizations and descriptive statistics to support arguments and research. Through this course, students will develop a set of essential skills to work on real-world questions related to issues in peace, conflict and justice, while engaging with existing data and their applied research findings to understand their policy relevance. Students must be enrolled in either the PCJ Major or PCJ Specialist program to take this course.

Prerequisite: 4.0 credits

Breadth Requirements: Society and its Institutions (3)

PCJ261H1 - Introduction to Peace, Conflict and Justice II

Previous Course Number: PCJ260Y1

Hours: 24L/12T

The course reviews theories exploring the causes of conflict, the possibilities for the pursuit of peace, and the role of justice in both. Drawing on a wide range of disciplines and perspectives, it offers an introduction to diverse approaches to conflict resolution and peace-building. Case studies and examples are used to help students apply the conceptual tools they acquire to prominent world conflicts. Students must be enrolled in either the PCJ Major or PCJ Specialist program to take this course.

Prerequisite: PCJ260H1

Exclusion: PCJ260Y1

Breadth Requirements: Society and its Institutions (3)

PCJ299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PCJ310H1 - Data and Applications in PCJ

Hours: 24L/12T

The goal of this course is to introduce students to data literacy and applications in the topics of peace, conflict, and justice. The course is broadly divided into two parts.

The first part will introduce data in the context of peace, conflict, and justice studies and outline the research process. Students will learn advanced quantitative research designs and will work with fundamental descriptive statistics tools. Students will work with different datasets, learn how to summarize data for different types of variables through graphs and tables, and explore measures of association between variables. In the second part of the course, students will work on data projects related to peace, conflict, and justice. Students will also design their own research relevant in PCJ. This course is a requirement for PCJ Specialists.

Prerequisite: PCJ200H1, PCJ210H1

Exclusion: PCJ260H1

Breadth Requirements: Society and its Institutions (3)

PCJ350H1 - The Violence of Inequality: Conflict Dynamics and Power Asymmetries

Hours: 24L/12T

This course builds on various multi-disciplinary approaches to explore how inequalities shape violence, conflict, and post-conflict dynamics. It teaches students to understand and engage critically in debates in the field and to discover connections between the power structures that shape the emergence of violent conflicts, their dynamics, and their legacies. In addition, this course will offer students practical tools to analyze the intersection of conflict and inequality, as well as the implications of that intersection for pursuing peace. This course is a requirement for PCJ majors and specialists.

Prerequisite: PCJ200H1, PCJ210H1

Exclusion: PCJ261H1

Breadth Requirements: Society and its Institutions (3)

PCJ360H1 - Topics in Peace, Conflict and Justice

Hours: 24L

This course explores selected issues in the field of Peace, Conflict and Justice. Topics may vary from year to year. Through a suite of recent readings, students will strive to critically examine implications and challenges of, and solutions to the issues being studied. Please visit the [Trudeau Centre for Peace, Conflict and Justice website](#) for current offering information.

Prerequisite: PCJ260Y1/ (PCJ260H1, PCJ261H1)

Recommended Preparation: POL208H1

Breadth Requirements: Society and its Institutions (3)

PCJ361H1 - Special Topics in Peace, Conflict and Justice Studies

Hours: 24S

An exploration of selected issues in the field of Peace, Conflict and Justice involving an overseas and/or practicum component.

Exclusion: PCS361H1, UNI361Y1

Recommended Preparation: POL208Y1

PCJ361Y1 - Special Topics in Peace and Conflict Studies

Previous Course Number: PCS361Y1, UNI361Y1

Hours: 48S

An exploration of selected issues in the field of Peace, Conflict and Justice involving an overseas and/or practicum component.

Prerequisite: PCJ260Y1 or permission from the Program Director

Exclusion: PCS361H1, PCS361Y1, UNI361Y1

Recommended Preparation: POL208Y1/ POL208H1

Breadth Requirements: Society and its Institutions (3)

PCJ362H1 - Experiential Learning in PCJ

Hours: 12T/24S

This course provides students an opportunity to learn by providing valuable services to local, national, or international organizations. This model of experiential learning is called organization partner experiences, in which students work in teams on a project that is of relevance to the partner organization. The overarching theme in this course is inclusion through access to public services. Access to public services such as education, health, and public provision of services is one of the most important ways in which disadvantaged populations experience upward socioeconomic mobility. Students will gain insights about inequality of access to public service, conduct critical analysis of current issues, and produce deliverables to understand issues of socio-economic inequality in societies around the world.

Prerequisite: PCJ200H1, PCJ210H1, PCJ350H1

Breadth Requirements: Society and its Institutions (3)

PCJ380H1 - Justice Institutions: Crime, Violence, and Insecurity

Hours: 24S

This course examines the role of institutions that respond to crime and violence. We study the role of institutional actors centering on criminal justice: we focus in particular on criminal justice institutions, but also community organizations, government agencies, international organizations, journalists, and others—in identifying, naming, and acting upon crime and violence. We also study the strategies these institutions adopt in responding to crime, violence, and insecurity, along with evidence about how they do so and outcomes of their interventions. Finally, we attend to the relationship between criminal justice and other social outcomes, including health and well-being, collective memory, skepticism, social movements, and civic participation. Throughout the course we rely on a wide range of materials, so that in most weeks students will engage with a combination of perspectives, including social science research, legal materials, testimonies, official documents, and journalistic accounts.

Prerequisite: PCJ200H1, PCJ210H1

Corequisite: PCJ350H1

Breadth Requirements: Society and its Institutions (3)

PCJ399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PCJ410H1 - Research Paper Seminar in PCJ

Hours: 24S

This course guides each student through their own individual research project, embedded in an interactive group learning process, to offer an applied introduction to research methods for peace, conflict and justice studies. Students work through the research in the field of peace, conflict and justice studies, such as: identifying a research question, learning how to write a critical literature review, developing a rigorous research design, and applying quantitative, qualitative, or mixed methods to answering research inquires. The final deliverable is a draft of a research proposal or an empirical research-based paper.

This course is a requirement for PCJ Specialists and open to PCJ Majors with approval from the Director.

Prerequisite: [PCJ200H1](#), [PCJ210H1](#), [PCJ350H1](#)

Breadth Requirements: Society and its Institutions (3)

PCJ444H1 - Special Topics in Peace and Conflict Studies

Previous Course Number: PCS444H1

Topics vary annually. The objective of the course is to explore emerging issues in Peace and Conflict Studies. The focus of the course will be on a specific topic, rather than a broad survey of the field.

Prerequisite: [PCJ260Y1](#), [PCJ360Y1](#) or permission of the instructor

Exclusion: [PCS444H1](#)

Breadth Requirements: Society and its Institutions (3)

PCJ460H1 - Advanced Topics in Peace, Conflict and Justice

Hours: 24S

This course explores selected issues in the field of Peace, Conflict and Justice. Topics may vary from year to year. Through a suite of recent readings, students will strive to critically examine implications and challenges of, and solutions to the issues being studied. Please visit the [Trudeau Centre for Peace, Conflict and Justice website](#) for current offering information.

Prerequisite: [PCJ360H1](#), [PCJ362H1](#)

Breadth Requirements: Society and its Institutions (3)

PCJ461H1 - Research Methods in Peace, Conflict and Justice

Hours: 48S

This course guides each student through their own individual research project, embedded in an interactive group learning process, in order to offer an applied introduction to research methods for peace, conflict and justice studies. Students work through the full research process, including: identifying a research question, learning how to conduct effective literature reviews, developing a rigorous research design, and applying quantitative and qualitative methods to answering questions. Rather than conducting research independently or studying research methods in isolation, the course combines the two: students learn collectively about the

different steps in the research process while simultaneously applying those steps to their own research project. This is then complemented by presenting that research and discussing different research projects in class, so as to receive continuous feedback and be exposed to a variety of research methods and approaches.

Prerequisite: Enrolment restricted to students enrolled in the Peace, Conflict and Justice Specialist program

Corequisite: [PCJ460H1](#)

Breadth Requirements: Society and its Institutions (3)

PCJ499H1 - Peace and Conflict Studies Independent Study Course

Previous Course Number: PCS499H1

This course is designed to provide students with the opportunity to explore topics not covered in the curriculum, or to develop a more detailed focus on topics covered. Approval of the program director is required. The student must obtain written agreement of the instructor who will supervise the independent study, submit the proposal to and obtain approval from the director and program administrator, who will then add the student to the course. Not eligible for CR/NCR option.

Applications are due two weeks before course enrolment deadlines.

Prerequisite: [PCJ260Y1](#)/ ([PCJ260H1](#), [PCJ261H1](#))

Exclusion: [PCS499H1](#)

Recommended Preparation: For students enrolled in the Peace, Conflict and Justice Major or Specialist program.

Breadth Requirements: Society and its Institutions (3)

Pharmacology and Toxicology

Faculty List

Professors Emeriti

D.M. Grant, PhD
T. Inaba, PhD
J. Mitchell, PhD
A.B. Okey, PhD
C. Pace-Asciak, PhD
B.P. Schimmer, PhD
E.M. Sellers, MD, PhD

Professor and Chair of the Department

A. Salahpour, PhD, Chair

Professors

R. Al-awar, PhD
M. Al-Omran, MD
A.C. Andreazza, PhD
B. Brands, PhD
D. Cherney, PhD
J. Daskalakis, PhD
V. De Luca, MD, PhD
P. Dorian, MD
J. Eubanks, PhD
Y. Finkelstein, MD
L. Galea, PhD
S. George, MD
B.I. Goldstein, MD, PhD
D. Haas, PhD, DDS
M. Hahn, MD, PhD
D.R. Hampson, PhD
S. Ito, MD
S. Kish, PhD
J. Kotsopoulos, PhD
K.L. Lanctôt, PhD
A.D. Lê, PhD
B. Le Foll, MD, PhD
F. Liu, PhD
G. Liu, MD, MSc
C. D. Mazer, MD
R.S. McIntyre, MD
J.H. Meyer, MD, PhD
D. Mueller, MD, PhD
J.N. Nobrega, PhD
M. Olson, PhD
K.S. Pang, PhD
J.D. Parker, MD
A. Petronis, MD, PhD
M. Piquette-Miller, PhD
B. Pollock, MD
A. Ravindran, PhD
D. Riddick, PhD

R.A. Ross, PhD
P. Roy, PhD
M. Schapira, PhD
J. Semple, PhD
E. Sibille, PhD
O.C. Snead III, MD
H.S. Sun, MD, PhD
R. Tyndale, PhD
J.P. Uetrecht, MD, PhD
S. Verma, MD, PhD
P.G. Wells, Pharm D
A.H.C. Wong, MD, PhD
M. Woo, MD, FRCPC, PhD
L.T. Young, MD, PhD

Professors, Teaching Stream

M.I. Arnot, PhD
C. Woodland, PhD

Associate Professors

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L. Boileau, PhD
D. Hess, PhD
M.I. Husain, MD
B. Hubbard, PhD
S. Kloiber, MD
N. Kolla, MD, PhD, FRCPC, DABPN
T. Lewis, MD
J. Matthews, PhD
J.P. McPherson, PhD
R. Mizrahi, MD, PhD
A. Ortiz, MSc, MD
A.J. Ramsey, PhD
S. Rizvi, PhD
A. Salahpour, PhD
L. Salmena, PhD
W. Swardfager, PhD
J.A. Udell, MD, MPH
M. Vedadi, PhD
C. Wickens, PhD
R. Yanagawa, PhD, MPH
H.W.H. Yu, PhD
L. Zawertailo, PhD

Assistant Professors

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D. Barsyte-Lovejoy, PhD
E. Caron-Beaudoin, PhD
M. Chenoweth, PhD
P. Di Ciano, PhD
B. Dunkley, PhD
L. Edgar, PhD
L.C. Halabelian, PhD
R. Harding, PhD
A. Hassan, MD
M.I. Hussain, MBBS
N. Minian, PhD
N. Mittmann, PhD
G. Montandon, PhD
V. Oliveira, PhD
T. Prevot, PhD

M. Reed, PhD
J. Rosenblat, MD
K. Singh, PhD
M. Sloan, MD, MSc, FRCPC
C. Zheng, PhD

Assistant Professors, Teaching Stream

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Adjunct Professors

J.A. Arnot, PhD
G. Higgins, PhD
G. Kalabis, PhD
P.P. Li, PhD
J.M. Mayer, PhD
A. Nava-Ocampo, MSc, MD
M.G. Neuman, PhD
B. Pohlmann-Eden, MD, PhD
G. Rachamin, PhD
C. Toal, PhD
J. Wallace, PhD, MBA, FRSC
M. Zack, PhD

Adjunct Lecturers

J. Grant, PhD
A. Haller, PhD
M. Moller, MSc, MD
K. Nylen, PhD
J. Oldenhof, MSc, PhD
B. Setnik, PhD
M.J. Shram, PhD
D. Tambasco, MD

Students wishing to enrol in the Biomedical Toxicology Specialist ([ASSPE2573](#)) or in the Pharmacology Specialist ([ASSPE2082](#)) will initially apply to the Joint Pharmacology and Biomedical Toxicology Specialist ([ASSPE2340](#)) at the end of their first year of study. Students wishing to enrol in the Biomedical Toxicology Major ([ASMAJ2573](#)) or in the Pharmacology Major ([ASMAJ2082](#)) will initially apply to a general departmental Major ([ASMAJ2675](#)) at the end of their first year of study and then select the focus for their future studies (Biomedical Toxicology or Pharmacology) prior to the start of the third year of study. Students wishing to enrol in the Environment and Toxicology Specialist ([ASSPE0605](#)) will apply directly to the program after completion of first year prerequisite courses. First and second year courses are the same for students within either the Specialist programs ([ASSPE2082/ASSPE2340/ASSPE2573](#)) or the Major programs ([ASMAJ2675/ASMAJ2082/ASMAJ2573](#)) within the Department.

For further information about registration and courses, consult the Arts & Science [Program Toolkit](#) and [Course Enrolment Instructions](#), and visit our website at: www.pharmtox.utoronto.ca.

Contact Information

Undergraduate Office - General Inquiries:
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Introduction

Pharmacology and Toxicology are integrative biological sciences that examine the properties of chemical compounds and their interactions with living systems. They provide the scientific basis for the study of chemical actions in the health sciences, the use of drugs as therapeutic agents or as tools in scientific research, the development and control of pharmaceutical products, and the investigation and control of pollutants and poisons in natural and social environments. The Department of Pharmacology and Toxicology offers four Specialist and two Major undergraduate programs of study that are jointly sponsored by the Faculties of Arts and Science and Medicine. The Specialist programs have the added benefit of providing students with opportunities to learn advanced laboratory techniques and to gain real-world experience through supervised independent research projects and participation in the [Arts & Science Internship Program](#) (see below). Students who intend to pursue graduate research and/or careers in pharmacology or toxicology are encouraged to enrol in a Specialist program because of the opportunities for additional experiential learning.

Regarding Pharmacology and Toxicology Programs

Arts & Science Internship Program

Starting Fall 2021, the new [Arts & Science Internship Program](#) (ASIP) stream is available to students who are entering Year 2 or Year 3 of study and enrolled in the Biomedical Toxicology Specialist, Environment & Toxicology Specialist, Pharmacology Specialist, and the Specialist in Pharmacology and Biomedical Toxicology.

- Enrolment is limited and requires a supplemental application. Students enrolled in the ASIP stream will be required to complete mandatory Professional Development programming plus a minimum of 12 and maximum of 20 months (Year 2 entry) or a minimum of 12 and maximum of 16

months (Year 3 entry) of paid, full-time work experience. The time to degree completion for students enrolled in ASIP will normally be 5 years. There is an additional cost to participate in the ASIP stream.

- Students will typically be admitted to the ASIP stream for the Fall term of Year 2 of study, however, in exceptional circumstances students, including transfer students, who enrolled in an eligible program in the Summer after Year 2 can be admitted to the ASIP stream for the Fall of Year 3. Acceptance into an ASIP stream in Year 3 is dependent on space and requires approval of the student's academic unit and the Faculty of Arts & Science Experiential Learning & Outreach Support (ELOS) Office. Please refer to the [ASIP eligibility page](#) for further details.
- Further details about ASIP, including eligibility requirements and application procedures, can be found [here](#). Students may also visit the [ASIP webpage](#) or contact the ELOS office at asip@utoronto.ca.

NOTE

Students cannot combine any MAJOR or SPECIALIST from this program with another MAJOR or SPECIALIST from this program for their degree.

Pharmacology and Toxicology Programs

Biomedical Toxicology Specialist (Science Program) - ASSPE2573

Biomedical toxicology has emerged as an important science addressing drug safety and the adverse consequences of chemical exposure. The Biomedical Toxicology Specialist program examines the harmful effects of chemicals on the health and behaviour of individuals and society. The safety/toxicity of a wide array of chemicals is examined including pharmaceutical preparations, herbal products, natural toxins and environmental contaminants, with a focus on their effects on human health. This program emphasizes the application of toxicological knowledge and risk assessment and prepares students for a variety of job opportunities following its completion as well as for further study in graduate research or professional programs such as Medicine, Dentistry, and Pharmacy. (Note: Students interested in professional programs should contact the respective faculties to inquire about specific transfer

credits.) Many graduates of the Biomedical Toxicology Specialist program pursue careers in scientific research, forensic science, nutrition and food sciences, governmental agencies, consulting agencies, and industrial settings including the pharmaceutical and chemical industries. Students learn about basic and clinical toxicology and related areas through lectures, tutorials, laboratories, and independent research projects. The senior research project course enables students to gain valuable research experience while working under the supervision of an individual faculty member in either a laboratory-based or a non-laboratory-based setting.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 8.0 credits and meet the requirements listed below to enroll. Students interested in this program should initially apply to the Specialist in Pharmacology & Biomedical Toxicology Program (ASSPE2340) after their first year of study. Students in ASSPE2340 will have the opportunity to move into the Biomedical Toxicology Specialist (ASSPE2573) following their second year of study.

Students who have completed 4.0 to 7.5 credits cannot apply directly to ASSPE2573 and must first apply to ASSPE2340, using the following courses:

- [BIO120H1](#) and [BIO130H1](#)
- ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#)
- 1.0 credit from ([MAT135H1](#) and [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)/ ([PHY131H1](#) and [PHY132H1](#))/ ([PHY151H1](#) and [PHY152H1](#))

Students who have completed at least 8.0 credits and who are already enrolled in ASSPE2340 may enrol in ASSPE2573 themselves on ACORN.

Students who have completed at least 8.0 credits but who are not already enrolled in ASSPE2340 must apply to ASSPE2573 using the following courses:

- [BIO120H1](#) and [BIO130H1](#)
- ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#)
- 1.0 credit from ([MAT135H1](#) and [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)/ ([PHY131H1](#) and [PHY132H1](#))/ ([PHY151H1](#) and [PHY152H1](#))
- [PCL201H1](#)

Variable Minimum Grade and Variable Minimum Grade Average

A minimum grade and minimum grade average in required courses are needed for entry, and this minimum changes each year depending on available spaces and the number of applicants.

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in

any of these courses, or a combined grade average lower than 75% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade and minimum grade average does not guarantee admission to the program.

Applications from students lacking numerical grades in one or more of the specified enrolment requirements, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Arts & Science Internship Program (ASIP)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Biomedical Toxicology Specialist in the Summer after Year 2 and completion of [PCL201H1](#) (with a minimum grade of 77%), [PSL300H1](#) and [PSL301H1](#).

Notes:

- While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 80s; average = mid 80s.
- **Students wishing to enroll in the Biomedical Toxicology Specialist will initially apply to the Joint Specialist in Pharmacology and Biomedical Toxicology (ASSPE2340). After admission, students can then choose to transfer to the Biomedical Toxicology Specialist following second year.** First and second year courses are the same for all Specialist programs within the Department (ASSPE2082/ASSPE2340/ASSPE2573).
- Students cannot combine the Biomedical Toxicology Specialist with either departmental Major programs (Biomedical Toxicology or Pharmacology).
- Students wishing to enroll **after** their second year who have taken [PCL201H1](#) will be considered on a case by case basis. Successful completion of pre-requisite courses is required to enroll in upper level program courses. Students may not transfer

to the Major program from the Specialist after completion of [PCL474Y1](#) or [INT300H1](#)/[INT301H1](#) in the Arts & Science Internship Program (ASIP).

Completion Requirements:

(14.0 credits)

First Year: [BIO120H1](#), [BIO130H1](#), ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#), and 1.0 credit from any combination of ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/[MAT157Y1](#), [PHY131H1](#)/[PHY151H1](#), [PHY132H1](#)/[PHY152H1](#) (see NOTE 1)

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second Year: [BCH210H1](#), [BIO230H1](#)/[BIO255H1](#), [BIO260H1](#)/[HMB265H1](#), [CHM247H1](#)/[CHM249H1](#), [STA288H1](#), [PCL201H1](#), ([PSL300H1](#), [PSL301H1](#)) (NOTE: [PSL201Y1](#) is not acceptable)

Third Year: [PCL302H1](#), [PCL381H1](#), at least one 0.5 credit from [PCL367H1](#) or [PCL368H1](#) (see NOTE 2)

Third or Fourth Year: [LMP363H1](#) and 2.5 credits at least 1.5 credits from PCL courses: [JPM300H1](#)/[JPM400Y1](#) (see NOTE 3)/ [PCL298H1](#)/[PCL345H1](#)/[PCL362H1](#) / [PCL367H1](#) or [PCL368H1](#) (see NOTE 2)/ [PCL386H1](#)/[PCL389H1](#)/[PCL475H1](#)/[PCL476H1](#)/[PCL477H1](#)/[PCL484H1](#)/[PCL490H1](#)/[ANA301H1](#)/[CHM310H1](#)/[ENV441H1](#)/[LMP301H1](#)

Fourth Year: [PCL402H1](#), ([PCL482H1](#), [PCL483H1](#)), [PCL474Y1](#)/[JPM400Y1](#) (see NOTE 3)

An Integrative, Inquiry-Based Activity Requirement must be satisfied.

The requirement for an integrative, inquiry-based and/or experiential activity must be met by completing at least one of the following: [PCL297H1](#), [PCL298H1](#), [PCL389H1](#), [PCL397Y0](#), [PCL474Y1](#), [JPM400Y1](#). Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

NOTES:

1. Any PHY/MAT courses should be completed during the first year and included for program enrolment.
2. At least 0.5 credit from [PCL367H1](#) or [PCL368H1](#) is required for the program, however if desired the alternative course can be taken as a program elective.
3. Enrolment in any of [PCL474Y1](#) or [JPM400Y1](#) is limited and requires permission from the Department of Pharmacology and Toxicology. Students must receive prior consent from the course coordinator according to Departmental

guidelines before the Department will register them in the course. Students can take either course as their required independent project, or may take [JPM400Y1](#) as an additional elective. It is the student's responsibility to make all necessary preparations before the session starts (see course description).

4. Students wishing to apply their Arts & Science Internship Program (ASIP) towards the requirement to complete [PCL474Y1](#)/ [JPM400Y1](#) should reach out to undergrad.pharmtox@utoronto.ca.

- [BIO120H1](#), [BIO130H1](#)
- ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#)
- 1.0 credit from ([MAT135H1](#), [MAT136H1](#))/
[MAT137Y1](#)/ [MAT157Y1](#)/ ([PHY131H1](#),
[PHY132H1](#))/([PHY151H1](#), [PHY152H1](#))

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in each course, or a combined grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Arts & Science Internship Program (ASIP)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Environment & Toxicology Specialist in the Summer after Year 2 and completion of [PCL201H1](#) (with a minimum grade of 77%), [PSL300H1](#) and [PSL301H1](#).

Environment & Toxicology Specialist (Science Program) - ASSPE0605

This program is jointly sponsored by the Department of Pharmacology and Toxicology and the School of the Environment. For additional information see "School of the Environment" (www.environment.utoronto.ca) or consult our website: www.pharmtox.utoronto.ca.

The Environment and Toxicology Specialist program is an interdisciplinary program which spans the social, physical and life sciences and integrates study of the effects of chemicals not only on the health and behaviour of human beings but on whole ecosystems as the adverse effects associated with therapeutic and environmental chemicals are discussed. This program emphasizes the application of knowledge of environmental toxicology and risk assessment and prepares students for a variety of job opportunities following its completion. Graduates of the Environment and Toxicology program may pursue careers in scientific research, environmental science, conservation science, governmental agencies, consulting agencies, and within chemical, manufacturing or agriculture industries. Students learn to integrate basic environmental and life science with particular aspects of clinical toxicology and related areas through lectures, tutorials, and laboratory and independent research project experience. The senior independent research project course enables students to gain valuable research experience while working under the supervision of an individual faculty member in either a laboratory-based or a non-laboratory-based setting.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enroll.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

Notes:

- The Environment and Toxicology Specialist cannot be combined with the Biomedical Toxicology Major or the Pharmacology Major.
- Students who wish to enroll in the program **after** their second year will be considered on a case-by-case basis. Successful completion of required prerequisite courses is required to enroll in further upper-level program courses.

Completion Requirements:

(14.0 credits, including 4.0 credits at the 300+level, 1.0 credit of which must be at the 400-level).

First Year: BIO120H1, BIO130H1, (CHM135H1, CHM136H1)/ CHM151Y1, and at least 1.0 credit from MAT135H1, MAT136H1, MAT137Y1, MAT157Y1, PHY131H1, PHY132H1, PHY151H1, PHY152H1

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second Year: BCH210H1, BIO230H1/ BIO255H1, ENV221H1, ENV222H1, PCL201H1, PSL300H1, PSL301H1 and CHM247H1 (see NOTE 1)

Third and Fourth Years:

BIO220H1, EEB240H1, JGE321H1, CHM210H1, PCL302H1, PCL381H1, PCL482H1, PCL483H1

One of: ENV341H1/ ENV337H1/ EEB320H1

One of: STA220H1/ STA221H1/ STA288H1/ EEB225H1 (see NOTE 2)

One of: ENV421Y1/ JPM400Y1/ PCL367H1/ PCL474Y1 (see NOTE 2)

At least 1.0 credit from: CHM310H1, EEB321H1, EEB365H1, EEB428H1, ENV441H1, ENV462H1, JPM300H1, LMP301H1, LMP363H1, PCL298H1, PCL362H1, PCL386H1, PCL477H1, PCL484H1, PCL490H1, PHY231H1 (see NOTE 3)

An Integrative, Inquiry-Based Activity Requirement must be satisfied.

The requirement for an integrative, inquiry-based and/or experiential activity must be met by completing at least one of the following: PCL297H1, PCL298H1, PCL367H1, PCL397Y0, ENV421H1, ENV421Y1, JPM400Y1, PCL474Y1. Students who complete the Arts & Science Internship Program (ASIP) stream or PEY Co-op will also meet this requirement.

Note: January 2022 was the last opportunity for Faculty of Arts & Science students to register for PEY Co-op. Students in Year 3 in the Fall/Winter 2021-2022 were the last group of Faculty of Arts & Science students eligible to participate in PEY Co-op. Students starting Year 2 in Fall 2021 or later are only eligible to participate in the Arts & Science Internship Program stream.

Notes:

1. PSL300H1 and PSL301H1 require MAT 100-level/ PHY 100-level courses.
2. PCL201H1, PCL302H1, and PCL367H1 are pre-requisites for students intending to take PCL474Y1. Students intending to take PCL474Y1 must obtain permission from the Undergraduate Student Advisor of the School of the Environment 3 months prior to the intended date of enrolment.

Students must also consult with the Department of Pharmacology and Toxicology at least 3 months prior to the intended date of enrolment.

Students wishing to take ENV421Y1 are advised to take the course during third year, due to scheduling conflicts with fourth year requirements.

3. Students taking PCL477H1 must take BCH210H1 prior. **Students taking only PCL367H1 must take 1.5 credits from program electives requirement list of courses to ensure 14.0 program credits. Students may choose to take both PCL367H1 and ENV421Y1/ JPM400Y1/ PCL474Y1 and would then need to take only 0.5 credits from the program electives requirement list of courses to ensure 14.0 program credits.**

Pharmacology Specialist (Science Program) - ASSPE2082

Pharmacology is an integrative medical science that builds upon the core foundational disciplines of the basic life sciences. The Pharmacology Specialist program aims to provide students with an understanding of the therapeutic properties and clinical uses of externally administered chemical substances in the whole body, as well as the mechanisms of their actions and interactions with molecular, cellular and tissue targets. This understanding prepares students for a variety of either research-based or non-research-based careers, including positions in the pharmaceutical and biotechnology industries, in government agencies, in research institutes and in universities. Students learn about both basic and clinical pharmacology through lectures, tutorials, laboratories and independent research projects. The senior research project course enables students to gain valuable research experience while working under the supervision of an individual faculty member in either a laboratory-based or a non-laboratory-based setting.

Pharmacology (and its application in clinical therapeutics) plays a prominent role in society, and a comprehension of drug mechanisms and uses is fundamental to career success in the fields of medicine, dentistry, pharmacy and nursing. While some students take the Pharmacology Specialist program in preparation for these professional programs, students are advised to contact the respective Faculties directly for questions related to transfer credits.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 8.0 credits and meet the requirements listed below to enroll. Students interested in this program should initially apply to the Specialist in Pharmacology & Biomedical Toxicology Program (ASSPE2340) after their first year of study. Students in ASSPE2340 will have the

opportunity to move into the Pharmacology Specialist (ASSPE2082) following their second year of study.

Students who have completed 4.0 to 7.5 credits cannot apply directly to ASSPE2082 and must first apply to ASSPE2340, using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- 1.0 credit from (MAT135H1 and MAT136H1)/
MAT137Y1/ MAT157Y1/ (PHY131H1 and
PHY132H1)/ (PHY151H1 and PHY152H1)

Students who have completed at least 8.0 credits and who are already enrolled in ASSPE2340 may enrol in ASSPE2082 themselves on ACORN.

Students who have completed at least 8.0 credits but who are not already enrolled in ASSPE2340 must apply to ASSPE2082 using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- 1.0 credit from (MAT135H1 and MAT136H1)/
MAT137Y1/ MAT157Y1/ (PHY131H1 and
PHY132H1)/ (PHY151H1 and PHY152H1)
- PCL201H1

Variable Minimum Grade and Variable Minimum Grade Average

A minimum grade and minimum grade average in required courses are needed for entry, and this minimum changes each year depending on available spaces and the number of applicants.

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in each course, or a combined grade average lower than 75% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade and minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified enrolment requirements, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Arts & Science Internship Program (ASIP)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Pharmacology Specialist in the Summer after Year 2 and completion of PCL201H1 (with a minimum grade of 77%), PSL300H1 and PSL301H1.

Notes:

- While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 80s; average = mid 80s.
- **Students wishing to enroll in the Pharmacology Specialist will initially apply to the Joint Specialist in Pharmacology and Biomedical Toxicology (ASSPE2340). After admission, students can then choose to transfer to the Pharmacology Specialist following second year.** First and second year courses are the same for all Specialist programs within the Department (ASSPE2082/ASSPE2340/ASSPE2573).
- Students cannot combine the Pharmacology Specialist with either departmental Major programs (Biomedical Toxicology or Pharmacology).
- Students wishing to enroll **after** their second year who have taken PCL201H1 will be considered on a case by case basis. Successful completion of required pre-requisite courses is required to further enroll in upper level program courses. Students may not transfer to the Major program from the Specialist after completion of PCL472Y1 or INT300H1/ INT301H1 in the Arts & Science Internship Program (ASIP).

Completion Requirements:

(14.0 credits)

First Year: BIO120H1, BIO130H1, (CHM135H1, CHM136H1)/ CHM151Y1, and 1.0 credit from any combination of (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1, PHY131H1/ PHY151H1, PHY132H1/ PHY152H1 (see NOTE 1)

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second Year: BCH210H1, BIO230H1/ BIO255H1, BIO260H1/ HMB265H1, CHM247H1/ CHM249H1, STA288H1, PCL201H1, (PSL300H1, PSL301H1) (NOTE: PSL201Y1 is not acceptable)

Third Year: BCH311H1/ PSL350H1, PCL302H1, at least one 0.5 credit from PCL367H1 or PCL368H1 (see NOTE 2)

Third or Fourth Year: PCL469H1 and 3.0 credits with at least 1.5 credits from PCL courses: JPM300H1/ JPM400Y1 (see NOTE 3)/ PCL298H1/ PCL345H1/ PCL367H1 or PCL368H1 (see NOTE 2)/ PCL386H1/ PCL389H1/ PCL475H1/ PCL476H1/ PCL477H1/ PCL484H1/ PCL490H1/ ANA300Y1/ BCH340H1/ BCH450H1

Fourth Year: PCL402H1, PCL470H1, PCL472Y1/ JPM400Y1 (see NOTE 3)

An Integrative, Inquiry-Based Activity Requirement must be satisfied.

The requirement for an integrative, inquiry-based and/or experiential activity must be met by completing at least one of the following: PCL297H1, PCL298H1, PCL389H1, PCL397Y0, PCL472Y1, JPM400Y1. Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

NOTES:

1. Any PHY/MAT courses should be completed during the first year and included for program enrolment.
2. At least one 0.5 credit from PCL367H1 or PCL368H1 is required for the program, however if desired the alternative course can be taken as a program elective.
3. Enrolment in either PCL472Y1 or JPM400Y1 is limited and requires permission from the Department of Pharmacology and Toxicology. Students must receive prior consent from course coordinator according to Departmental guidelines before the Department will register them in the course. Students can take either course as their required independent project, or may take JPM400Y1 as an additional elective. It is the student's responsibility to make all necessary preparations before the session starts (see course description).
4. Students wishing to apply their Arts & Science Internship Program (ASIP) towards the requirement to complete PCL472Y1/ JPM400Y1 should reach out to undergrad.pharmtox@utoronto.ca.

Specialist in Pharmacology and Biomedical Toxicology (Science Program) - ASSPE2340

Pharmacology and Biomedical Toxicology are complementary sciences, and the Pharmacology and Biomedical Toxicology Specialist combines the requirements of the two distinct specialist programs. The Specialist program integrates knowledge of pharmacology – the understanding of the therapeutic properties and clinical applications of externally administered chemical substances in the whole body and the mechanisms of their actions and interactions with their intended targets, while biomedical toxicology examines the harmful effects of exogenous chemicals on the health and behaviour of individuals and society, addressing drug safety and the adverse consequences of chemical exposure. Biomedical toxicology includes understanding the safety/toxicity of a wide array of chemicals (pharmaceutical preparations, herbal products, natural toxins and environmental contaminants) with a focus on their effects and adverse consequences on human health.

Both Pharmacology and Biomedical Toxicology are integrative life sciences which build on the core foundational disciplines of the basic life sciences and the prominent role each science plays in society. A comprehension of the biological mechanisms of action and potential uses of chemicals are key to career success in the fields of medicine, dentistry, pharmacy and nursing. The Specialist program prepares students for a variety of job opportunities following its completion as well as for further study in graduate research or professional programs such as Medicine, Dentistry, and Pharmacy. (Note: Students interested in professional programs should contact the respective faculties to inquire about specific transfer credits.) Graduates of this rigorous program will have access to an impressive variety of job opportunities in either research-based or non-research-based careers, including scientific research in research institutes and in universities, positions in the pharmaceutical, biotechnology and chemical industries, forensic science, nutrition and food sciences, government or consulting agencies. Students learn about both basic and clinical pharmacology and biomedical toxicology through lectures, tutorials, small group sessions, laboratories and independent research projects. The senior research project course enables students to gain valuable research experience while working under the supervision of an individual faculty member in either a laboratory-based or a non-laboratory-based setting.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade or Variable Minimum Grade Average

A minimum grade/minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

Students who have completed 4.0 to 7.5 credits can apply directly to ASSPE2340 using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- 1.0 credit from (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1/ (PHY131H1 and PHY132H1)/ (PHY151H1 and PHY152H1)

Students who have completed at least 8.0 credits and who are already enrolled in ASSPE2340 have the option of remaining in the program until completion or may enrol themselves in ASSPE2082 or ASSPE2573 on ACORN.

Students who have completed at least 8.0 credits but who are not already enrolled in ASSPE2340 must apply using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- 1.0 credit from (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1/ (PHY131H1 and PHY132H1)/ (PHY151H1 and PHY152H1)
- PCL201H1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in each course, or a combined grade average lower than 75% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Arts & Science Internship Program (ASIP)

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Specialist in Pharmacology and Biomedical Toxicology in the Summer after Year 2 and completion of PCL201H1 (with a minimum grade of 77%), PSL300H1 and PSL301H1.

Notes:

- While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 80s; average = mid 80s.
- **Students wishing to enroll in the Pharmacology Specialist (ASSPE2082) or Biomedical Toxicology Specialist (ASSPE2573) will initially apply to the Joint Specialist in Pharmacology and Biomedical Toxicology (ASSPE2340). After admission, students can then choose to transfer to the Pharmacology or Biomedical Toxicology Specialist following second year.** First and second year courses are the same for all Specialist programs within the Department (ASSPE2082/ASSPE2340/ASSPE2573).
- Students cannot combine the Pharmacology and Biomedical Toxicology Specialist with either departmental Major programs (Biomedical Toxicology or Pharmacology).
- Students wishing to enroll **after** their second year who have taken PCL201H1 will be considered on a case by case basis. Successful completion of required pre-requisite courses is required to further enroll in upper level program courses. Students may not transfer to the Major program from the Specialist after completion of PCL472Y1/ PCL474Y1 courses or INT300H1/ INT301H1 in the Arts & Science Internship Program (ASIP).

Completion Requirements:

(14.5 credits)

First Year: BIO120H1, BIO130H1, (CHM135H1, CHM136H1)/ CHM151Y1, and 1.0 credit from any combination of (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1, PHY131H1/ PHY151H1, PHY132H1/ PHY152H1 (see NOTE 1)

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second Year: BCH210H1, BIO230H1/ BIO255H1, BIO260H1/ HMB265H1, CHM247H1/ CHM249H1, STA288H1, PCL201H1, (PSL300H1, PSL301H1) (NOTE: PSL201Y1 is not acceptable)

Third Year: BCH311H1/ PSL350H1, PCL302H1, PCL381H1, at least one 0.5 credit from PCL367H1 or PCL368H1 (see NOTE 2)

Third or Fourth Year: LMP363H1, PCL469H1, and 1.5 credits from the following courses: JPM300H1/ JPM400Y1 (see NOTE 3)/ PCL298H1/ PCL345H1/ PCL362H1 / PCL367H1 or PCL368H1 (see NOTE 2)/ PCL386H1/ PCL389H1/ PCL475H1/ PCL476H1/ PCL477H1/ PCL484H1/ PCL490H1/ LMP301H1. Additional courses that may strengthen your background in this program can be taken, but will not count towards your program: ANA300Y1/ ANA301H1/ BCH340H1/ CHM310H1

Fourth Year: PCL402H1; PCL470H1; (PCL482H1, PCL483H1); PCL472Y1/ PCL474Y1/ JPM400Y1 (see NOTE 3)

An Integrative, Inquiry-Based Activity Requirement must be satisfied.

The requirement for an integrative, inquiry-based and/or experiential activity must be met by completing at least one of the following: PCL297H1, PCL298H1, PCL389H1, PCL397Y0, PCL472Y1, PCL474Y1, JPM400Y1. Students who complete the Arts & Science Internship Program (ASIP) will also meet this requirement.

NOTES:

1. Any PHY/MAT courses should be completed during the first year and included for program enrolment.
2. At least one 0.5 credit from PCL367H1 or PCL368H1 is required for the program, however if desired the alternative course can be taken as a program elective.
3. Enrolment in any of PCL472Y1/ PCL474Y1 or JPM400Y1 is limited and requires permission from the Department of Pharmacology and Toxicology. Students must receive prior consent from the course coordinator according to Departmental guidelines before the Department will register them in the course. Students can take either course as their required independent project, or may take JPM400Y1 as an additional elective. It is the student's responsibility to make all necessary preparations before the session starts (see course description).
4. Students wishing to apply their Arts & Science Internship Program (ASIP) towards the requirement to complete PCL472Y1/ PCL474Y1/ JPM400Y1 should reach out to undergrad.pharmtox@utoronto.ca.

Biomedical Toxicology Major (Science Program) - ASMAJ2573

Biomedical toxicology has emerged as an important science addressing drug safety and the adverse consequences of chemical exposure. The Biomedical Toxicology Major program examines the harmful effects of chemicals on the health and behavior of individuals and society. The safety/toxicity of a wide array of chemicals is examined including pharmaceutical preparations, herbal products, natural toxins, and environmental contaminants, with a focus on their effects on human health. Students learn about basic and clinical toxicology and related areas through lectures, tutorials and class discussions/debates.

This program includes the application of toxicological knowledge and risk assessment and prepares students for a variety of job opportunities following its completion as well as for further study in graduate research or professional programs such as Medicine, Dentistry, and Pharmacy. (Note: Students interested in professional programs should contact the respective faculties to inquire about specific transfer credits.) Many graduates of the Biomedical Toxicology major program pursue careers in scientific research, forensic science, nutrition and food sciences, governmental agencies, consulting agencies, and industrial settings including the pharmaceutical and chemical industries.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 8.0 credits and meet the requirements listed below to enroll. Students interested in this program should initially apply to the general Major (ASMAJ2675) after their first year of study. Following their second year of study, students in ASMAJ2675 must choose to pursue either the Pharmacology Major (ASMAJ2082) or the Biomedical Toxicology Major (ASMAJ2573).

Students who have completed 4.0 to 7.5 credits cannot apply directly to ASMAJ2573 and must first apply to ASMAJ2675, using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1

Students who have completed at least 8.0 credits and who are already enrolled in ASMAJ2675 may enrol in ASMAJ2573 themselves on ACORN.

Students who have completed at least 8.0 credits but who are not already enrolled in ASMAJ2675 must apply to ASMAJ2573 using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1

- PCL201H1

Variable Minimum Grade or Variable Minimum Grade Average

A minimum grade and minimum grade average in required courses are needed for entry, and this minimum changes each year depending on available spaces and the number of applicants.

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in any of these courses, or a combined grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade and minimum grade average does not guarantee admission to the program.

Applications from students lacking numerical grades in one or more of the specified enrolment requirements, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Notes:

- While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 80s; average = mid 80s.
- Students wishing to enroll in this program will initially apply to a general departmental Major (ASMAJ2675) after their first year. After admission, and prior to the start of their third year of study, students will select the focus for their future studies (Biomedical Toxicology or Pharmacology). First and second year courses are the same for all Major programs within the Department (ASMAJ2675/ASMAJ2082/ASMAJ2573).
- Students cannot combine a Biomedical Toxicology Major program with a Pharmacology Major or Specialist program for their degree.

Completion Requirements:

(8.0 credits)

First Year: BIO120H1; BIO130H1; (CHM135H1, CHM136H1/ CHM151Y1

Second Year: BCH210H1; BIO230H1/ BIO255H1; PCL201H1; CHM247H1/ CHM249H1; (PSL300H1, PSL301H1) (NOTE: PSL201Y1 is not acceptable)

Third Year: PCL302H1; PCL381H1

Third or Fourth Year: 1.0 credit with at least 0.5 credit from PCL courses: JPM300H1/ JPM400Y1/ PCL298H1/ PCL345H1/ PCL362H1/ PCL367H1/ PCL368H1/ PCL386H1/ PCL389H1/ PCL402H1/ PCL475H1/ PCL476H1/ PCL477H1/ PCL484H1/ PCL490H1/ ANA301H1/ ENV441H1/ LMP301H1/ LMP363H1

Fourth Year: PCL482H1, PCL483H1

Notes:

1. Students are not allowed to enroll concurrently in the Major Program in Pharmacology and the Major Program in Toxicology.
2. Students are not allowed to enroll concurrently in the Major Program in Pharmacology and a Specialist Program in Toxicology.
3. Students are not permitted to take PCL472Y1 or PCL474Y1.

Pharmacology Major (Science Program) - ASMAJ2082

Pharmacology is an integrative medical science that builds upon the core foundational disciplines of the basic life sciences. This program is intended for students who want to gain knowledge in Pharmacology in combination with a separate and complementary area of study and is designed for students interested in broad, multidisciplinary training. The Pharmacology Major program is designed to provide students with a broad understanding of the therapeutic properties and clinical uses of externally administered chemical substances in the whole body, as well as the mechanisms of their actions and interactions with molecular, cellular and tissue targets. Students learn about both basic and clinical pharmacology through lectures, tutorials and small group sessions.

This understanding prepares students for a variety of either research-based or non-research-based careers, including positions in the pharmaceutical and biotechnology industries, in government agencies, in research institutes and in universities. Pharmacology (and its application in clinical therapeutics) plays a prominent role in society, and a comprehension of drug mechanisms and uses is fundamental to career success in the fields of medicine, dentistry, pharmacy and nursing. While some students take the Pharmacology Major program in preparation for these professional programs, students are advised to contact the respective Faculties directly for questions related to transfer credits.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 8.0 credits and meet the requirements listed below to enroll. Students interested in this program should initially apply to the general Major (ASMAJ2675) after their first year of study. Following their second year of study, students in ASMAJ2675 must choose to pursue either the Pharmacology Major (ASMAJ2082) or the Biomedical Toxicology Major (ASMAJ2573).

Students who have completed 4.0 to 7.5 credits cannot apply directly to ASMAJ2082 and must first apply to ASMAJ2675, using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1

Students who have completed at least 8.0 credits and who are already enrolled in ASMAJ2675 may enrol in ASMAJ2082 themselves on ACORN.

Students who have completed at least 8.0 credits but who are not already enrolled in ASMAJ2675 must apply to ASMAJ2082 using the following courses:

- BIO120H1 and BIO130H1
- (CHM135H1, CHM136H1)/ CHM151Y1
- PCL201H1

Variable Minimum Grade and Variable Minimum Grade Average

A minimum grade and minimum grade average in required courses are needed for entry, and this minimum changes each year depending on available spaces and the number of applicants.

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 65% in each course, or a combined grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade and minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified enrolment requirements, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at undergrad.pharmtox@utoronto.ca, specify which program you would like to be considered for, and provide your student number. Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Notes:

- While it is difficult to predict what will be competitive course marks and average in a given year, based on previous years, the estimate is: course marks = mid 80s; average = mid 80s.
- Students wishing to enroll in this program will initially apply to a general departmental Major (ASMAJ2675) after their first year. After admission, and prior to the start of their third year of study, students will select the focus for their future studies (Biomedical Toxicology or Pharmacology). First and second year courses are the same for all Major programs within the Department (ASMAJ2675/ASMAJ2082/ASMAJ2573). Students cannot combine a Pharmacology Major program with a Pharmacology Major or Specialist program for their degree.
- Students wishing to enroll **after** their second year who have taken PCL201H1 will be considered on a case by case basis. Successful completion of required pre-requisite courses is required to further enroll in upper level program courses.

Completion Requirements:

(8.0 credits)

First Year: BIO120H1; BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1

Second Year: BCH210H1; BIO230H1/ BIO255H1; PCL201H1; CHM247H1/ CHM249H1; (PSL300H1, PSL301H1) (NOTE: PSL201Y1 is not acceptable)

Third Year: PCL302H1; BCH311H1/ PSL350H1

Third or Fourth Year: PCL469H1 and 1.0 credit from: JPM300H1/ JPM400Y1/ PCL298H1/ PCL345H1/ PCL367H1/ PCL368H1/ PCL386H1/ PCL389H1/ PCL402H1/ PCL475H1/ PCL476H1/ PCL477H1/ PCL484H1/ PCL490H1

Fourth Year: PCL470H1

Notes:

1. Students are not allowed to enroll concurrently in the Major Program in Pharmacology and the Major Program in Toxicology.
2. Students are not allowed to enroll concurrently in the Major Program in Pharmacology and a Specialist Program in Toxicology.
3. Students are not permitted to take PCL472Y1 or PCL474Y1.

Pharmacology and Toxicology Courses

PCL102H1 - The Art of Drug Discovery

Hours: 24L

This course introduces students to the processes and strategies for discovering new drugs with a special focus on current and emerging approaches for the rational design of drugs that are both effective and safe.

Breadth Requirements: Living Things and Their Environment (4)

PCL200H1 - Drugs & the Brain

Hours: 24L

Lectures introduce students to prescribed and illicit drugs that affect the brain. Lectures cover drug pharmacology and explain how drugs alter mood, perception, cognition, and arousal by affecting different aspects of brain function. The societal impact of these prescribed and illicit drugs is also discussed.

Note: This course is not intended for upper-year students in Life Sciences. Upper-year Life Science students interested in this content should look into PCL475H1 and/or PCL476H1 as the more appropriate choice.

Exclusion: PSY396H1, PSYC62H3

Breadth Requirements: Living Things and Their Environment (4)

PCL201H1 - Introduction to Pharmacology and Pharmacokinetic Principles

Hours: 36L/6T

A general introduction to the principles of pharmacology and pharmacokinetics. Topics include chemical (drug) absorption, distribution, biotransformation, elimination; the calculation of dosages and pharmacokinetic parameters, variability in drug response, adverse drug reactions and special interest topics.

Prerequisite: BIO130H1/ BIOA01H3/ BIO152H5

Corequisite: Recommended Co-requisites: BIO230H1/ BIO255H1, PSL300H1/ PSL301H1

Breadth Requirements: Living Things and Their Environment (4)

PCL218H1 - Cannabis the Drug

Hours: 24L

There is a critical need for a breadth of understanding regarding its mechanism of action, pharmacological effects and its potential benefits and harms (short- and long-term). Students will gain a breadth of understanding in cannabis-related topics including pharmacology and toxicology, its role in mental health and addictions, medical use, drug policy and new drug development that stems from increased access to cannabis constituents. They will learn to differentiate myths and anecdotes from evidence-based knowledge. Going forward it is imperative that students spanning basic sciences through business, arts and engineering have a comprehensive understanding of these topics. PCL218H1 will give students for a variety of academic backgrounds a basic understanding of the health implications of cannabis which have broad implications for both our professional and personal lives.

Breadth Requirements: Living Things and Their Environment (4)

PCL297H1 - Research Experience in Pharmacology & Toxicology I

Hours: 60P

A formal opportunity to gain hands-on experience and develop their skills within a research laboratory setting. Students will have a chance to become familiar and efficient at good lab practices, develop critical thinking and evaluation skills while applying their knowledge and developing trouble shooting skills to practical research questions. Students are required to participate in active research for the equivalent of a minimum of 60 hours of laboratory time. This course is Pass/Fail. Not eligible for CR/NCR option. NOTE: students are required to secure their own supervisor for the course.

Permission of Faculty Supervisor and Department required.

Additional student information resources and enrollment form for the course can be found on the Pharmacology & Toxicology website here:

<https://pharmtox.utoronto.ca/undergraduate-courses>

Prerequisite: Completion of at least 4.0 credits.

Recommended Preparation: Completion of at least first year of Life Sciences program.

Breadth Requirements: Living Things and Their Environment (4)

PCL298H1 - Research Experience in Pharmacology & Toxicology II

Hours: 60P

Following experience from PCL297H1, this follow up course provides students an opportunity to expand their hands-on experience and skill set within a research laboratory setting. This course is only open to students who have completed PCL297H1 and wish to continue their research opportunity with the same supervisor. Students will continue to develop good lab practices, critical thinking and evaluation skills while applying their knowledge and troubleshooting skills to practical research questions. Students are required to participate in active research for the equivalent of a minimum of 60 hours of laboratory time. Not eligible for CR/NCR option. NOTE: students are required to secure their own supervisor for the course.

Permission of Faculty Supervisor and Department required.

Additional student information resources and enrollment form for the course can be found on the Pharmacology & Toxicology website here:

<https://pharmtox.utoronto.ca/undergraduate-courses>

Prerequisite: PCL297H1

Breadth Requirements: Living Things and Their Environment (4)

PCL299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

JPM300H1 - Research Readiness and Advancing Biomedical Discoveries

Hours: 12L/24T

Explore how scientists leverage their knowledge and skills to advance academic biomedical discoveries from the laboratory to improve patient health through either commercialization or not-for-profit approaches. Students will learn about innovation and develop key research and industry skills including intellectual property, ethics, budget and project management; learn how to critically evaluate scientific evidence and effectively communicate to a wide audience. This hybrid student-centered course

will include interactive online modules and in-class group work. Course work will focus on developing skills and knowledge to help you be successful in diverse research courses and future careers. Not eligible for CR/NCR option.

Prerequisite: Completion of 10.0 credits, BCH210H1/BCH242Y1

Recommended Preparation: PSL300H1, PSL301H1

Breadth Requirements: Living Things and Their Environment (4)

PCL302H1 - Pharmacodynamic Principles

Hours: 36L

Topics include biological action of drugs on membranes, enzymes, receptors, neural and hormonal systems, transmission and modulation.

Prerequisite: (PSL300H1, PSL301H1)

Exclusion: PHC300H1, PHC301H1

Recommended Preparation: PCL201H1

Breadth Requirements: Living Things and Their Environment (4)

PCL345H1 - Experimental Approaches in Drug Discovery

Hours: 24L

Lecturers use their own research to demonstrate how they approach a biological question. The lectures emphasize why one approach is chosen over other possible approaches, and explain the strengths and limitations of techniques. Following the one-hour lecture there is an interactive discussion of the experimental approach covered in the lecture.

Prerequisite: One of PSL300H1/PSL301H1/BIO270H1/BIO271H1, and completion of 10.0 credits. Students who do not meet the prerequisite are encouraged to contact the Department.

Recommended Preparation: BCH210H1, PCL201H1, PCL302H1

Breadth Requirements: Living Things and Their Environment (4)

PCL362H1 - Introductory Toxicology

Hours: 27L/5T

Toxicological problems encountered in animals and humans; biochemical mechanisms and clinical factors of

toxicological significance; models of drug-related diseases.

Prerequisite: BIO130H1/ BIOA01H3/ BIO152H5, PCL201H1 or Permission of the Department

Corequisite: Recommended Co-requisite: PCL302H1, BCH311H1/ CSB349H1

Recommended Preparation: BCH210H1, CHM247H1

Breadth Requirements: Living Things and Their Environment (4)

PCL367H1 - Drug Development Pipeline I: In vitro

Hours: 8T/40P

This course will provide a learning experience that simulates the process, techniques, analysis and evaluation methods used for early-stage *in vitro* drug development. Modules will build on the student's fundamental knowledge and will simulate and illustrate the thought processes and techniques that are used during new drug development in academic research institutes, clinical research organizations and pharmaceutical and biotechnology companies worldwide. Modules include target screening, cytotoxicity assays, transcriptional activation testing and metabolizing enzyme identification experiments. This experience will allow students to leverage their learned knowledge to improve their employability in this area, while honing their critical thinking and analytical skills. (Lab Materials Fee: \$25)

Prerequisite: Completion of 10.0 credits including PSL300H1 and PSL301H1

Corequisite: PCL302H1

Recommended Preparation: PCL201H1

Breadth Requirements: Living Things and Their Environment (4)

PCL368H1 - Drug Development Pipeline II: In vivo

Hours: 8T/40P

This course will provide a learning experience that parallels and simulates the process, protocols, methods and evaluation tools used for later-stage *in vivo* drug development. Modules will build on the student's fundamental knowledge and simulate the thought processes and techniques used during drug development in research institutes, clinical research organizations and pharmaceutical and biotechnology companies worldwide. Modules will include pharmacokinetic and pharmacodynamic analyses and pharmacogenetic screening approaches in model systems and humans. This experience will allow students to leverage their learned skills and knowledge to improve their

comprehension and employability in this area, while honing critical thinking and analytical skills. (Lab Materials Fee: \$25)

Prerequisite: PSL300H1, PSL301H1, PCL201H1, PCL302H1

Breadth Requirements: Living Things and Their Environment (4)

PCL376H1 - Experimental Design and Data Analysis for Pharmacology and Toxicology

Hours: 30L/6T

This course includes lectures focused on experimental design and the analysis of pharmacological and toxicological data. Topics include: principles of experimental design, data analysis and statistical tests appropriate for each type, use of computing statistical packages, analysis of dose-response and time-response curves and analysis of receptor binding assays. Practical applications and problem sets will be taken up in class and in tutorials. Not offered every year.

Prerequisite: PCL201H1

Corequisite: PCL302H1

Breadth Requirements: Living Things and Their Environment (4)

PCL381H1 - The Molecular and Biochemical Basis of Toxicology

Previous Course Number: PCL481H1

Hours: 24L/12T

An introduction to Toxicology and an examination of biochemical principles and the molecular mechanisms that underlie toxicity of drugs and foreign agents. This course explores the sequence of molecular events that leads to cell function impairment and factors that determine and affect toxicity.

Prerequisite: PCL302H1 or Permission of the Department (for non-program students with certain backgrounds)

Exclusion: PCL481H1

Recommended Preparation: BCH210H1/ BCH242Y1

Breadth Requirements: Living Things and Their Environment (4)

PCL386H1 - Pharmacology of Cancer Signaling

Previous Course Number: PCL486H1

Hours: 24L

This course will expand on both classical and cutting edge pharmacological strategies proposed to mitigate the consequences of altered signal transduction in cancer. Students will have the opportunity to develop knowledge on these molecular events and how they can be targeted to improve clinical outcomes. Students will integrate lecture material with assigned readings and assignments.

Prerequisite: BCH210H1/ BCH242Y1, and completion of at least 10.0 credits, or Permission of the Department

Exclusion: PCL486H1

Breadth Requirements: Living Things and Their Environment (4)

PCL389H1 - Understanding the Role of Pharmacology and Toxicology in Society

Hours: 24L

This service learning course explores issues surrounding the effects that pharmaceuticals and chemicals have in society. Specifically, it integrates pharmacology and toxicology with social, health and political issues as they relate to drug abuse and addiction. Students are required to interact and work with community partners during the semester (approx. 20hrs). Classroom discussions will integrate community experiences with lecture material. Not eligible for CR/NCR option.

Prerequisite: PCL201H1

Corequisite: PCL302H1; (PSL300H1, PSL301H1)

Breadth Requirements: Living Things and Their Environment (4)

PCL397Y0 - Research Abroad in Pharmacology and Toxicology

Hours: 200P

An independent research project in a pharmacology and/or toxicology laboratory in an approved partner university. This international research experience will be supervised by a faculty member at the partner institution and will allow students to develop critical thinking and evaluation skills while applying their knowledge and troubleshooting skills to practical research questions. Information regarding eligibility, application process and upcoming information session dates can be found on the

Department of Pharmacology and Toxicology website here: [PCL397Y0 Website](#). Not eligible for CR/NCR option. Contact undergrad.pharmtox@utoronto.ca for more information.

Prerequisite: PCL201H1 (65%), PSL300H1 (65%), PSL301H1 (65%); permission from the Undergraduate Coordinator

Recommended Preparation: PCL302H1 (65%)

Breadth Requirements: Living Things and Their Environment (4)

PCL397Y1 - Research Abroad in Pharmacology and Toxicology

Hours: 200P

An independent research project in a pharmacology and/or toxicology research laboratory for inbound exchange students coming to the University of Toronto from an approved partner university. This research experience will be supervised by a faculty member and will allow students to develop critical thinking, communication and evaluation skills while applying their knowledge and troubleshooting skills within leading edge research questions. Information regarding eligibility, application process and upcoming information session dates can be found on the Department of Pharmacology and Toxicology website here: [PCL397Y1 Website](#). Not eligible for CR/NCR option. Contact undergrad.pharmtox@utoronto.ca or the Centre for International Experience <https://internationalexperience.utoronto.ca/> for more information.

Prerequisite: Completion of at least 8.0 credits, permission from the Department. Background course work in Pharmacology and Physiology strongly recommended.

Breadth Requirements: Living Things and Their Environment (4)

Course Experience: University-Based Experience

PCL399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

JPM400Y1 - Biomedical Incubator Capstone Project

Hours: 240P/16S

Discover what it is like to be part of a biomedical innovation team. Develop and engage in biomedical research in a simulated small business/incubator setting under the guidance of a faculty mentor. Bring your proposed JPM300H1 project to life, while acquiring budget management, research, business and communication workplace skills for future careers. Enrolment is application-based. Application requirements and process are presented as part of the JPM300H1 course. Proposals will be reviewed by committee and successful proposals will be matched to a mentor. Not eligible for CR/NCR option.

Application required; contact department (undergrad.pharmtox@utoronto.ca) for more information.

Students will form teams and develop a research proposal based on either:

1. Faculty led concept requiring further development and testing, which would not normally be funded grants and would be tangential to ongoing research in the lab.

2. Student developed innovative idea that requires further development and testing. This should be a project that is not being investigated in a UofT research lab.

Prerequisite: A minimum of 75% in JPM300H1; completion of any of PCL367H1/ PCL368H1/ PSL372H1/ BCH370H1/ BCH377H1 or Permission of the Department.
Breadth Requirements: Living Things and Their Environment (4)

PCL402H1 - Pharmacology and Toxicology in Drug Development

Hours: 24L/12T

This course provides the basic principles of drug development, with a primary focus on the application of fundamental principles of pharmacology and toxicology to the design of preclinical assays and early phase clinical trials. Students in the course will have the opportunity to engage in experiential learning in drug development projects for rare diseases.

Prerequisite: PCL201H1, PCL302H1
Corequisite: PCL470H1/ PCL482H1
Recommended Preparation: PSL300H1, PSL301H1

Breadth Requirements: Living Things and Their Environment (4)

PCL469H1 - Systems Pharmacology I

Previous Course Number: PCL470Y1

Hours: 31L/4T

A culmination of pharmacological principles discussing concepts of drug properties and their interactions within the body. The mechanism of action, pharmacological properties including clinical use and adverse effects of drugs acting on the autonomic nervous systems, cardiovascular, renal, respiratory, gastrointestinal and endocrine systems will be examined. Critical evaluation of primary literature and examination of clinical problem-based case studies will be integrated with lecture material through small group sessions.

Prerequisite: PCL201H1, PCL302H1, (PSL300H1, PSL301H1)

Exclusion: PCL470Y1

Recommended Preparation: BCH210H1

Breadth Requirements: Living Things and Their Environment (4)

PCL470H1 - Systems Pharmacology II

Previous Course Number: PCL470Y1

Hours: 31L/4T

A culmination of pharmacological principles discussing concepts of drug properties and their interactions within the body. The mechanism of action, pharmacological properties including clinical use and adverse effects of drugs acting on the central nervous systems and immunological system; antimicrobial and cancer chemotherapeutic agents as well as the potential therapeutic use of endogenous/herbal compounds will be examined. Critical evaluation of primary literature and examination of clinical problem-based case studies will be integrated with lecture material through small group sessions.

Prerequisite: PCL201H1, PCL302H1, (PSL300H1, PSL301H1), and 14.0 credits. Students who do not meet the prerequisite are encouraged to contact the Department.

Exclusion: PCL470Y1

Recommended Preparation: BCH210H1

Breadth Requirements: Living Things and Their Environment (4)

PCL472Y1 - Project in Pharmacology

This course affords students an opportunity for hands-on research experience in a laboratory or applied pharmacology setting. Students will work under the supervision of a faculty member and will submit a final written report and oral presentation. Enrollment is limited to students in ASSPE2340/ASSPE2082 programs and requires permission from the Department of Pharmacology and Toxicology. It is the student's responsibility to secure a placement with an approved supervisor before the course begins (a list of potential supervisors will be provided by the Department of Pharmacology and Toxicology). Students will be registered in the course once their ballot form (obtained from the Department) is signed by an approved supervisor and approved by the Department of Pharmacology and Toxicology. Eligible students will be contacted by the Department during the Winter term, occurring prior to their final year of study (i.e. 3rd year of study for most), with details and instructions to apply. Students are expected to spend approximately 200 hours towards this project but this will be project/supervisor dependent. Not eligible for CR/NCR option.

Prerequisite: PCL201H1, PCL302H1, PCL367H1/ PCL368H1, STA288H1/ STA220H1/ PSY201H1
Exclusion: PCL474Y1

Breadth Requirements: Living Things and Their Environment (4)

PCL474Y1 - Project in Toxicology

This course affords students an opportunity for hands-on research experience in a laboratory or applied toxicology setting. Students will work under the supervision of a staff member and will submit a final written report and oral presentation. Enrollment is limited to students in ASSPE2340/ASSPE2573/ASSPE0605 programs and requires permission from the Department of Pharmacology and Toxicology. It is the student's responsibility to secure a placement with an approved supervisor before the course begins (a list of potential supervisors will be provided by the Department of Pharmacology and Toxicology). Students will be registered in the course once their ballot form (obtained from the Department) is signed by an approved supervisor and approved by the Department of Pharmacology and Toxicology. Eligible students will be contacted by the Department during the Winter term, occurring prior to their final year of study (i.e. 3rd year of study for most), with details and instructions to apply. Students are expected to spend approximately 200 hours towards this project but this will be project/supervisor dependent. Not eligible for CR/NCR option.

Prerequisite: PCL201H1, PCL302H1, PCL367H1/ PCL368H1, STA288H1/ STA220H1/ PSY201H1
Exclusion: PCL472Y1

Breadth Requirements: Living Things and Their Environment (4)

PCL475H1 - Neuropsychopharmacology 1

Previous Course Number: PCL475Y1

Hours: 36L/12T

This course examines drugs whose primary effect is to alter the operation of the brain and mind (cognition, emotion). Key topics include the neurophysiology of: Pain, Anesthesia, Psychoactive Drug Effects, Addiction, Epilepsy, and Psychomotor Control. The brain mechanisms that mediate each of these processes or syndromes will be described along with pharmacological strategies to probe and regulate them. Chronic drug effects will be discussed to illustrate how the brain changes with ongoing exposure to different drugs.

Prerequisite: Completion of 9.0 credits

Exclusion: PCL475Y1

Breadth Requirements: Living Things and Their Environment (4)

PCL476H1 - Neuropsychopharmacology 2

Previous Course Number: PCL475Y1

Hours: 36L/12T

Students will explore the major CNS neurological syndromes which may include anxiety, schizophrenia and depression/mania and their relate neurological abnormalities. Lectures will discuss major classes of drugs used to mitigate and treat these disorders, their mechanisms of action, clinical use and unwanted effects. Not offered every year.

Prerequisite: Completion of 9.0 credits, and PCL475H1. Students who do not meet the prerequisite are encouraged to contact the Department.

Exclusion: PCL475Y1, PSY396H1

Breadth Requirements: Living Things and Their Environment (4)

PCL477H1 - The DNA Damage Response in Pharmacology and Toxicology

Hours: 24L

Many anticancer drugs and environmental agents exert their cytotoxic effects through DNA damage. This course

explores specific pharmacological and toxicological agents that damage DNA and discusses how mammalian cells respond to this DNA damage.

Prerequisite: BCH210H1/ BCH242Y1, completion of 9.0 credits

Breadth Requirements: Living Things and Their Environment (4)

PCL482H1 - Biomedical Toxicology

Previous Course Number: PCL473Y1

Hours: 24L

This course explores several contemporary topics in biomedical toxicology with emphasis on how chemicals affect human health. Lectures cover principles of toxicology, the mechanisms of toxicity of a wide variety of toxic agents and the associated toxicities, methodologies used to examine chemical toxicities, risk assessment, and the applications of toxicology.

Prerequisite: Completion of 14.0 credits including PCL201H1, PCL302H1, and one of PCL362H1/ PCL381H1. Students who do not meet the prerequisite are encouraged to contact the Department.

Exclusion: PCL473Y1

Recommended Preparation: BCH210H1 and BCH311H1

Breadth Requirements: Living Things and Their Environment (4)

PCL483H1 - Interdisciplinary Toxicology

Previous Course Number: PCL473Y1

Hours: 24L

This course explores several contemporary topics in biomedical and environmental toxicology with emphasis on how chemicals affect human health. Lectures cover principles of toxicology, the mechanisms of toxicity of a wide variety of toxic agents and the associated toxicities, methodologies used to examine chemical toxicities, risk assessment, and the applications of toxicology.

Prerequisite: (PCL201H1, PCL302H1, and one of PCL362H1/ PCL381H1) or Permission of the Course Coordinator

Exclusion: PCL473Y1

Recommended Preparation: BCH210H1 + BCH311H1

Breadth Requirements: Living Things and Their Environment (4)

PCL484H1 - Seminars in Pharmacokinetics and Toxicokinetics

Hours: 24S

Each week a scientist affiliated with the Department of Pharmacology and Toxicology will discuss the application of pharmacokinetic and/or toxicokinetic principles to their research. This area of study plays an important role in clinical medicine and drug development

Prerequisite: PCL201H1

Recommended Preparation: PCL302H1

Breadth Requirements: Living Things and Their Environment (4)

PCL490H1 - Advanced Topics in Pharmacology and Toxicology

Hours: 12L/12S

An opportunity to expand on innovative and unique topics in Pharmacology and Toxicology that are not already extensively addressed. The course will reveal the dynamic nature of the field and the diverse interests of our faculty. Students will be introduced to leading edge topics and research within the discipline of Pharmacology and Toxicology.

Prerequisite: PCL302H1, one of STA288H1/ STA220H1/ PSY201H1, completion of 14.0 credits. Students who do not meet the prerequisite are encouraged to contact the Department.

Recommended Preparation: PCL469H1/ PCL470H1/ PCL482H1/ PCL483H1

Breadth Requirements: Living Things and Their Environment (4)

Philosophy

Faculty List

University Professors Emeriti

T.M. Hurka, BA, B Phil, D Phil, FRSC
B.C. Inwood, MA, PhD, FRSC
L.W. Sumner, MA, PhD, FRSC

Professors Emeriti

J.R. Brown, MA, PhD, FRSC
R.B. DeSousa, BA, PhD, FRSC
L. Gerson, AM, PhD, FRSC (SM)
D. Goldstick, BA, D Phil
P.W. Gooch, MA, PhD (V)
W.C. Graham, MA, PhD (UTSC)
C.M.T. Hanly, BA, MS L, D Phil
W.R.C. Harvey, MA, LL B, PhD (V)
H.G. Herzberger, AM, PhD
D.S. Hutchinson, BA, B Phil, D Phil (T)
R.A. Imlay, MA, PhD (U)
E.J. Kremer, AB, PhD (SM)
I. Leman Stefanovic MA, PhD
J.C. Morrison, MA, PhD (SM)
J.T. Stevenson, MA (U)
M.T. Thornton, B Phil, MA, PhD (V)
R. E. Tully, BA, D Phil (SM)
A.I.F. Urquhart, MA, PhD
J.M. Vertin, MA, STL, PhD (SM)

Associate Professors Emeriti

B. Brown, BA, MA, PhD (SM)
R. V. Friedman, BA, MA, PhD (SM)
J. Hartley B Ph, BA, MA, PhD (SM)
P. Hess, BA, AM, PhD (V)
L. Lange, MA, PhD (UTSC)
A. Wingell, BA, MA, MSL, PhD (SM)

Professor and Chair

M. Pickavé, MA, PhD

Associate Professor and Associate Chair (Graduate)

C. Pfeiffer, MA, D. Phil (UTSC)

Associate Professor and Associate Chair (Undergraduate)

J. John, BA, PhD

University Professors

D. Dyzenhaus, BA, LLB, D Phil, FRSC
C. Misak, MA, D Phil, FRSC
A. Ripstein, MA, PhD, FRSC

Professors

D.C. Ainslie, B Sc, MA, PhD (U)

J. Allen, PhD (UTM)
R. Barney, BA, PhD
D.L. Black, MA, PhD (SM)
G. Boys-Stones, MA, D Phil
R. Comay, MA, PhD (V)
I. Dickie, BA (Hons), B Phil, D Phil
C.J. Fraser, BA, MA, PhD
J. Ganeri, MA, M Matt, M Phil, D Phil
R.B. Gibbs, MA, PhD (U)
W. Goetschel, Lic Phil, PhD
J.M. Heath, MA, PhD, FRSC (U)
B. Hellie, BA, PhD (UTSC)
B.D. Katz, MA, PhD (UTM)
P. King, BA, PhD
M. Kingwell, BA, M Litt, PhD (T)
P. Kremer, BSc, PhD (UTSC)
M. Matthen, BSc, MA, PhD (UTM)
A. Mullin, PhD (UTM)
J. Nagel, MA, PhD (UTM)
D. Novak, MHL, PhD (U)
D. Raffman, BA, PhD (UTM)
G.S. Rattan, BSc, PhD (UTM)
M. Rosenthal, BA, MA, PhD
M. Rozemond, Kand., PhD (UTM)
W.E. Seager, MA, PhD (UTSC)
S. Tenenbaum, BA, MA, PhD (UTM)
D. Walsh, BSc, Ph D, BA, M Phil, PhD
J. Wilson, BA, PhD (UTSC)
B. Yi, MA, PhD (UTM)

Associate Professors

M. Caie, BA, PhD
N. Charlow, BA, MA, PhD (UTM)
P. Clark, BA, PhD (UTM)
F. Huber, MA, PhD
S.A. Sedivy, BA, PhD (UTSC)
A. Sepielli, AB, JD, PhD (UTM)
N. Stang, AB, PhD
J. Weisberg, BA, PhD (UTM)

Assistant Professors

B. Babic, BA, JD, MS, PhD
D. Barnett, BA, PhD
B. De Kenessey, BA, PhD
T. Dika, BA, MA, PhD
A. Franklin-Hall, BA, PhD
E. Freschi, BA, MA, PhD
J. Gelber, BA, PhD
M. Miller, BA, MA, PhD
J. Nefsky, BA, PhD (UTSC)
W. Paris, BA, MA, PhD
S. Swarup, BA, MA, PhD
T. Teitel, BA, B Phil, PhD
O. Ware, BA, PhD (UTM)

Assistant Professor, Teaching Stream

A. Koo, BA, PhD

Lecturer

J.A. Thomson, BA, PhD

Introduction

The Greek words from which “Philosophy” is formed mean “love of wisdom” and all great philosophers have been moved by an intense devotion to the search for wisdom. Philosophy takes no belief for granted, but examines the grounds for those beliefs which make up people’s fundamental views of the world. Philosophers think about these beliefs as thoroughly and systematically as possible, using methods of conceptual analysis, reasoning, and detailed description.

What distinguishes Philosophy from the physical and social sciences is its concern not only with the truths which are discovered by means of specialized methods of investigation, but with the implications that such discoveries have for human beings in their relations with one another and the world. Moreover, Philosophy has an abiding interest in those basic assumptions about the nature of the physical and social world, and about the nature of enquiry itself, which underlie our scientific and practical endeavours.

The Philosophy Department at the University of Toronto offers courses in most of the main periods and areas of Philosophy, which are listed here with a typical question or the name of one or two central figures: Ancient Philosophy (Plato, Aristotle); Mediaeval Philosophy (Augustine, Aquinas); Early Modern Philosophy (Descartes, Hume, Kant); Nineteenth-Century Philosophy (Hegel, Mill, Marx); Global Philosophy (Chinese, Islamic, Jewish, Sanskrit, South Asian Philosophies), Continental Philosophy and Phenomenology (Husserl, Heidegger, Sartre); Analytic Philosophy (Quine, Russell, Wittgenstein); Epistemology and Metaphysics (What can be known? What is the ultimate nature of reality?); Moral Philosophy (How should we argue rationally about right and wrong?); Philosophy of Mind (What is mind? Is there free will?); Logic and Philosophy of Mathematics (What is sound reasoning? Do numbers exist?); Philosophy of Language (What is the meaning of “meaning”?); Philosophy of Natural Science (What is scientific method?); Social and Political Philosophy (What justifies the state?); Aesthetics (What is art? Must it be beautiful?). In addition, the Department offers Seminars (numbered [PHL400H1](#) – [PHL488H1](#)), Individual Studies courses (numbered [PHL495H1](#) – [PHL499H1](#)) and the Socrates Project ([PHL489Y1](#)).

Counselling is available in the main departmental office, 170 St. George Street, 4th floor. In particular, students may wish to get advice about how best to combine philosophy programs with other majors or minors, given that various co-specialist programs with other disciplines have been discontinued. In addition, the Department publishes an annual Bulletin. It contains full and up-to-date information on programs and courses, including names of instructors and descriptions of particular course sections. The Bulletin is published in the summer (for the succeeding year) and is available on the [Department's website](#) and at 170 St. George Street.

Undergraduate Coordinator:
Professor Jim John, 170 St. George Street, Room 521
(416-978-3314), undergrad.phil@utoronto.ca

Undergraduate Counsellor:
Mr. Eric Correia, 170 St. George Street, Room 403 (416-978-3314), eric.correia@utoronto.ca

Website: <https://philosophy.utoronto.ca/>

Philosophy Programs

Bioethics Specialist (Arts Program) - ASSPE1001

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

10.0 credits, including at least 4.0 credits at the 300+ level, of which 1.0 credit must be at the 400-level

First year (recommended):

[PHL100Y1](#)/ [PHL101Y1](#)
[BIO120H1](#), [BIO220H1](#)

Higher Years (required):

1. [PHL281H1](#), [PHL271H1](#), [PHL275H1](#)
2. [PHL245H1](#)/ [PHL246H1](#)
3. 1.5 credits from Group 1 (Advanced Bioethics)
4. 1.0 credit from Group 2 (Value Theory)
5. 0.5 credit from Group 3 (Metaphysics and Epistemology)
6. Additional philosophy courses, to a total of 10.0 credits, or else additional philosophy courses to a total of 9.0 credits and 1.0 credit from Group 4 (Interdisciplinary)

Group 1 - Advanced Bioethics:

[PHL380H1](#), [PHL381H1](#), [PHL382H1](#), [PHL383H1](#),
[PHL384H1](#), [PHL440H1](#), [PHL470H1](#)

Group 2 - Value Theory:

[PHL265H1](#), [PHL295H1](#), [PHL365H1](#), [PHL366H1](#),
[PHL370H1](#), [PHL375H1](#), [PHL407H1](#), [PHL412H1](#),
[PHL413H1](#), [PHL483H1](#)

Group 3 - Metaphysics and Epistemology:

[PHL232H1](#), [PHL233H1](#), [PHL240H1](#), [PHL331H1](#),
[PHL332H1](#), [PHL340H1](#), [PHL341H1](#), [PHL342H1](#),
[PHL355H1](#), [PHL357H1](#), [HPS250H1](#)

Group 4 - Interdisciplinary:

ANT348H1, GER338H1, GGR340H1, HIS423H1,
HIS489H1, HMB201H1, HMB202H1, HPS318H1,
HPS319H1, JHE353H1, SOC243H1, SOC309H1,
SOC363H1, SOC427H1, WGS367H1

Philosophy Specialist (Arts Program) - ASSPE0231

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10.0 credits, including PHL100Y1/ PHL101Y1 if taken)

First year (recommended):
PHL100Y1/ PHL101Y1

Higher Years (required):

1. 2.0 credits from the following: PHL200Y1/ (PHL205H1, PHL206H1)/ PHL210Y1
2. 1.0 credit from the following: PHL217H1/ PHL232H1/ PHL233H1/ PHL240H1
3. PHL265H1/ PHL275H1
4. PHL245H1/ PHL246H1
5. Additional philosophy courses, to a total of 10.0 credits, including 4.0 PHL credits at the 300+ level, of which 1.0 credit must be at the 400-level.

Physics and Philosophy Specialist (Science Program) - ASSPE2584

Physics has deep historical roots in natural philosophy and many aspects of contemporary Physics raise profound philosophical questions about the nature of reality. The interdisciplinary Physics and Philosophy Program allows the student to engage with both Physics and Philosophy at their deepest levels, and to more fully explore the connections between them.

Consult Associate Chair (Undergraduate Studies),
 Department of Physics or Philosophy.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(15.0 credits, including at least 1.5 credits at the 400-level)

First Year: (2.5 credits)

(MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1,
MAT223H1/ MAT240H1, PHY131H1/ PHY151H1,
PHY132H1/ PHY152H1 (The courses MAT137Y1,
MAT223H1, PHY151H1, PHY152H1 are recommended.)

First or Second Year: (1.5 credits)

1.5 credits of: PHL232H1/ PHL233H1/ PHL240H1/ PHL245H1/ HPS250H1/ PHL255H1 (PHL245H1 may only be counted here if MAT157Y1 is not taken)

Second Year: (3.0 credits)

MAT237Y1/ MAT257Y1/ MAT235Y1, MAT244H1/ MAT267H1, PHY250H1, PHY254H1, PHY256H1 (The courses MAT237Y1, MAT244H1 are recommended.)

Third Year: (2.0 credits)

MAT334H1/ MAT354H1, PHY252H1, (PHY350H1/ PHY354H1), PHY356H1

Fourth Year: (1.0 credit)

PHY456H1, PHY491H1

Any Year: (5.0 credits)

(PHL345H1/ PHL347H1), PHL355H1, PHL356H1, (PHL415H1/ PHL455H1/ PHL482H1), plus 1.0 credit of (PHL325H1/ PHL331H1/ PHL332H1/ PHL346H1/ PHL354H1/ PHL357H1) plus 2.0 additional PHL credits, at least 0.5 credit of which must be from Course Group 2 - Value Theory (The courses PHL265H1, PHL275H1 are recommended.)

Group 2 - Value Theory:

PHL265H1, PHL295H1, PHL365H1, PHL366H1,
PHL370H1, PHL375H1, PHL407H1, PHL412H1,
PHL413H1, PHL483H1

Bioethics Major (Arts Program) - ASMAJ1001

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

7.0 credits, including at least 2.0 credits at the 300+ level, of which one 0.5 credit must be at 400-level.

First year (recommended):

PHL100Y1/ PHL101Y1
BIO120H1, BIO220H1

Higher Years (required):

1. PHL281H1
2. PHL245H1/ PHL246H1
3. 1.0 credit from Group 1 (Advanced Bioethics)
4. 1.5 credits from PHL271H1 / PHL275H1 / Group 2 (Value Theory)
5. 0.5 credit from Group 3 (Metaphysics and Epistemology)
6. Additional philosophy courses, to a total of 7.0 credits, or else additional philosophy courses to a total of 6.5 credits, plus one 0.5 credit from Group 4 (Interdisciplinary)

Group 1 - Advanced Bioethics:

PHL380H1, PHL381H1, PHL382H1, PHL383H1,
PHL384H1, PHL440H1, PHL470H1

Group 2 - Value Theory:

PHL265H1, PHL295H1, PHL365H1, PHL366H1,
PHL370H1, PHL375H1, PHL407H1, PHL412H1,
PHL413H1, PHL483H1

Group 3 - Metaphysics and Epistemology:

PHL232H1, PHL233H1, PHL240H1, PHL331H1,
PHL332H1, PHL340H1, PHL341H1, PHL342H1,
PHL355H1, PHL357H1, HPS250H1

Group 4 - Interdisciplinary:

ANT348H1, GER338H1, GGR340H1, HIS423H1,
HIS489H1, HMB201H1, HMB202H1, HPS318H1,
HPS319H1, JHE353H1, SOC243H1, SOC309H1,
SOC363H1, SOC427H1, WGS367H1

Philosophy Major (Arts Program) - ASMAJ0231

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits, including PHL100Y1/ PHL101Y1 if taken)

First year (recommended):

PHL100Y1/ PHL101Y1

Higher Years (required):

1. 1.0 credit from the following: PHL200Y1/ (PHL205H1, PHL206H1)/ PHL210Y1
2. 1.0 credit from the following: PHL217H1/ PHL232H1/ PHL233H1/ PHL240H1
3. PHL265H1/ PHL275H1
4. PHL245H1/ PHL246H1

5. Additional philosophy courses, to a total of 7.0 credits, including 2.0 PHL credits at the 300+ level, of which one 0.5 credit must be at the 400-level.

Bioethics Minor (Arts Program) - ASMIN1001

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits including at least 1.0 credit at the 300+ level)

1. PHL281H1
2. PHL245H1/ PHL246H1
3. 0.5 credit from Group 1 (Advanced Bioethics)
4. 1.0 credit from PHL271H1 / PHL275H1 / Group 2 (Value Theory)
5. Additional philosophy courses to a total of 4.0 credits

Group 1 - Advanced Bioethics:

PHL380H1, PHL381H1, PHL382H1, PHL383H1,
PHL384H1, PHL440H1, PHL470H1

Group 2 - Value Theory:

PHL265H1, PHL295H1, PHL365H1, PHL366H1,
PHL370H1, PHL375H1, PHL407H1, PHL412H1,
PHL413H1, PHL483H1

Mathematics and Philosophy Specialist (Science Program) - ASSPE1361

The Specialist in Mathematics and Philosophy is directed toward students who are fascinated by the confluence of Mathematical and Philosophical precision.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students are encouraged to take their introductory analysis and algebra required for the program (MAT157Y1, MAT240H1, MAT247H1) as well as PHL100Y1/ PHL101Y1, which is recommended preparation for the program, in their first year of study.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Mathematics and Philosophy Specialist in the Summer after Year 2.

Completion Requirements:

12.0 credits including at least 1.0 credit at the 400-level

Mathematics and Philosophy Fundamentals

1. Analysis: [MAT157Y1](#), [MAT257Y1](#)
2. Algebra: [MAT240H1](#), [MAT247H1](#)
3. Philosophy related to science: 0.5 credit from [PHL232H1](#)/ [PHL233H1](#)/ [PHL255H1](#)

Further Studies in Philosophy

4. History of Philosophy: 1.0 credit from [PHL200Y1](#)/ [PHL205H1](#)/ [PHL206H1](#)/ [PHL210Y1](#)
5. Logic: 1.0 credit from [MAT309H1](#)/ [PHL348H1](#), [PHL345H1](#)
6. Politics and Ethics: [PHL265H1](#)/ [PHL275H1](#)
7. Topics: 2.0 credits further from [PHL325H1](#)/ [PHL331H1](#)/ [PHL332H1](#)/ [PHL346H1](#)/ [PHL354H1](#)/ [PHL347H1](#)/ [PHL349H1](#)/ [PHL355H1](#)/ [PHL451H1](#)/ [PHL480H1](#)

Further Studies in Mathematics

8. Topology: [MAT327H1](#)
9. Groups, Rings and Fields: [MAT347Y1](#)
10. Complex or Real Analysis: [MAT354H1](#)/ [MAT357H1](#)
11. Topics: 2.0 credits further of PHL/APM/MAT courses at the 300+ level

Notes:

- Not all courses listed have priority enrolment for students enrolled in this program. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
- Each course can count toward only one requirement, even if listed as options to multiple requisites of the program.
- Students in their last year of study with a cGPA of 3.5 or higher may be permitted to take up to 1.5 credits of Math graduate courses. These courses may count toward specialist program requirements, where relevant (e.g., as courses “at

the 400-level”). To review eligibility criteria and apply for graduate courses as an undergraduate student, find more information on the A&S Math website.

Philosophy Minor (Arts Program) - ASMIN0231

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including [PHL100Y1](#)/ [PHL101Y1](#) if taken)

1. 1.0 credit from the following: [PHL200Y1](#)/ [PHL205H1](#)/ [PHL206H1](#)/ [PHL210Y1](#)/ [PHL217H1](#)/ [PHL232H1](#)/ [PHL233H1](#)/ [PHL240H1](#)/ [PHL265H1](#)/ [PHL275H1](#)
2. Additional philosophy courses, to a total of 4.0 credits, including 1.0 credit at the 300+ level.

Environmental Ethics (Arts Program): see [School of the Environment](#)

Regarding Philosophy Courses

The following courses do not have PHL prefixes but may still be counted towards a philosophy program. Students should consult the primary listings for their course descriptions: [COG250Y1](#), [COG401H1](#), [HPS250H1](#), [TRN200Y1](#).

300-LEVEL COURSES

All 300-level courses have a prerequisite of 1.5 credits (or equivalent) in philosophy, with the exception of [PHL345H1](#) through [PHL349H1](#) and [PHL356H1](#). There is also a general prerequisite of 7.5 credits (in any field). Only specific courses required or recommended are listed below. Students who do not meet the prerequisite for a particular course but believe that they have adequate preparation must obtain the permission of the instructor to gain entry to the course.

400-LEVEL COURSES

1. The general prerequisite for ALL 400-level courses is 4.0 credits in philosophy. Most courses also have specific prerequisites. Students who do not meet the prerequisite for a particular course but believe that they have adequate preparation must obtain the permission of the instructor in order to gain entry to the course.
2. PHL400H1 through PHL451H1 are undergraduate-level courses. PHL470H1 through PHL488H1 are cross-listed graduate courses, available to undergraduates as well. Enrolment in cross-listed graduate courses requires the permission of the instructor and the Department in addition to the completion of the prerequisites indicated below.
3. Students in 400-level courses must attend the first class, or contact the instructor to explain their absence. Failure to do so may result in removal from the course.
4. Individual Studies courses (PHL495H1/ PHL496H1/ PHL497H1), which involve directed study and research, are available to advanced students. Arrangements must be made with a faculty supervisor, and approval of the Undergraduate Coordinator obtained before registration.
5. No more than one individual studies credit can be counted towards any philosophy program and normally, no more than one individual studies half credit can be counted towards the 400-level course requirement for any Specialist or Combined Specialist Philosophy program.
6. The Socrates Project (PHL489Y1) is a special enrolment course. If you are interested in this course, please contact the department.

Philosophy Courses

PHL100Y1 - Introduction to Philosophy (Historical)

Hours: 48L/24T

An introduction to the central branches of philosophy, such as logic, theory of knowledge, metaphysics, ethics, and political philosophy. Writings from the central figures in the history of Western and non-Western philosophy, as well as contemporary philosophers, may be considered.

Exclusion: PHL101Y1, PHL201H1, PHLA10H3, PHLA11H3, PHL101H5, PHL102H5, PHL105Y5

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL101Y1 - Introduction to Philosophy (Thematic)

Hours: 48L/24T

An introduction to some of the central problems of philosophy. Examples of questions that may be considered include: What is sound reasoning? What can we know? What is ultimately real? Is morality rational? Do humans have free will? Is there a God? What is consciousness? Should we fear death? What is justice?

Exclusion: PHL100Y1, PHL201H1, PHLA10H3, PHLA11H3, PHL101H5, PHL102H5, PHL105Y5

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL196H1 - Philosophy, Film, and Social Criticism

Hours: 48S

This course will critically examine the role of cinema in relation to selected topics and themes in social and political philosophy; these will vary from year to year, but may include race, ethnic and cultural 'other'-ness, class, social conflict, citizenship, cosmopolitanism, and human rights. Films will be screened in class and discussed against the background of focused critical and philosophical readings. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

PHL197H1 - Introduction to Philosophical Anthropology

Hours: 24S

Philosophical anthropology is the subject that poses the most fundamental questions about human nature and the human condition. Taking as its point of departure the most up-to-date scientific understanding of human nature, from anthropology broadly conceived, it goes on to inquire, in a disciplined fashion, about the implications of these views for perennial philosophical questions about human rationality, morality, the possibility of progress, the existence of god and the meaning of life. This course will examine one or more topics in this domain, as a more general introduction to the discipline. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL198H1 - Philosophy of Time

Hours: 24S

The passage of time is a fundamental aspect of human experience: we are born, we grow older, and eventually we pass away. During our lives our experience of the past, present, and future are distinct. We can influence the world in the present and the future, but it does not seem that we can influence the past. We have hopes about the future, memories of the past, and experiences of the present. In this seminar we will explore insights from contemporary philosophy and physics concerning the nature of the passage of time. Questions to be considered may include the following: What does it mean to say that time passes? Does time really pass at all? How do we experience time? Why can we influence the future but not the past? Is it possible to travel backward in time? Is time even real? What is time? Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

PHL199H1 - Ethics and Fiction

Hours: 24S

The goal of this seminar is to investigate selected ethical questions via works of fiction, considering how, and with what effect, fiction functions as an ethical medium. We will reflect on what fiction can teach us about pressing challenges of the human condition; themes to be discussed will vary from year to year, but may include choice and responsibility, freedom, friendship, empathy, integrity, and our relation to the divine and to death. Genres studied may range over novels, short stories, plays, and narrative poetry. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL200Y1 - Ancient Philosophy

Hours: 72L

Central texts of the pre-Socratics, Plato, Aristotle, and post-Aristotelian philosophy.

Exclusion: [PHLB31H3](#), [PHL202H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL201H1 - Introductory Philosophy

Hours: 36L

An introduction to philosophy focusing on the connections among its main branches: logic, theory of knowledge, metaphysics, and ethics. This course is intended for those with little or no philosophy background but who have completed Year 1 in any area of study.

Prerequisite: 4.0 credits in any subject

Exclusion: [PHL100Y1](#), [PHL101Y1](#), or more than 1.0 PHL course

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL205H1 - Early Medieval Philosophy

Hours: 36L

A study of issues such as the relations of reason and faith, the being and the nature of God, and the problem of universals, in the writings of such philosophers as Augustine, Boethius, Anselm and Abelard.

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL206H1 - Later Medieval Philosophy

Hours: 36L

A study of issues such as the relations of reason and faith, the being and the nature of God, and the structure of the universe, in the writings of such philosophers as Aquinas and Ockham.

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL210Y1 - 17th-and 18th-Century Philosophy

Hours: 72L

Central texts of such philosophers as Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant.

Exclusion: [PHLB35H3](#), [PHL210Y5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL217H1 - Introduction to Continental Philosophy

Hours: 36L

An introduction to some of the post-Hegelian thinkers who inspired the various philosophical movements broadly referred to as continental, such as phenomenology, existentialism, deconstruction, and post-modernism. Questions include the will, faith, death, existence, history and politics, rationality and its limits, encountering an other. Authors studied may include: Kierkegaard, Schopenhauer, Nietzsche, Marx, Freud, Heidegger, Sartre.

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL232H1 - Knowledge and Reality

Hours: 36L

An introduction to issues in the fundamental branches of philosophy: metaphysics, which considers the overall framework of reality; epistemology, or the theory of knowledge; and related problems in the philosophy of science. Topics in metaphysics may include: mind and body, causality, space and time, God, freedom and determinism; topics in epistemology may include perception, evidence, belief, truth, skepticism.

Exclusion: [PHLB20H3](#), [PHLB60H3](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL233H1 - Philosophy for Scientists

Hours: 24L/12T

An introduction to philosophy tailored for students with backgrounds in mathematics and science. Topics include causation, explanation, the relation between scientific and mathematical theories and reality, the role of mathematics in scientific theories, the relevance of scientific and mathematical discoveries to 'big' traditional philosophical questions such as the nature of consciousness, whether we have free will, and the meaning of life.

Corequisite: 1.0 credit in Mathematics, Physics, Chemistry, Engineering, or Computer Science

Recommended Preparation: Background in science

and/or mathematics will be presupposed.

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL235H1 - Philosophy of Religion

Hours: 36L

Some central issues in the philosophy of religion such as the nature of religion and religious faith, arguments for the existence of God, the problem of evil, varieties of religious experience, religion and human autonomy.

Exclusion: [PHL235H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL236H1 - Buddhist Philosophy

Hours: 36L

This course is an introduction to topics, schools, and figures in Buddhist philosophy. Texts to be read (in English translation) will range from the Pāli Canon (attributed directly to the Buddha) via Sanskrit and Tibetan Buddhist schools to contemporary Buddhist reflections. Themes and topics will be selected from those prominent in Buddhist texts: emptiness, impermanence, and non-selfhood; the theory of inference; perception and epistemology; philosophy of language; and philosophy of action. Texts and authors to be studied will standardly include the Pāli Canon, and one or more among Nāgārjuna, Vasubandhu, Dharmakīrti, Milarepa and contemporary Buddhist thinkers.

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL237H1 - Introduction to Chinese Philosophy

Hours: 36L

A historical introduction to Chinese philosophy, covering selected figures and texts from the Warring States period through the Qīng dynasty. Schools of thought covered include Confucianism, Mohism, Daoism, Legalism, "Profound Learning," Neo-Confucianism, and "Evidential Learning." Texts and thinkers include the Confucian Analects, Mòzǐ, Mèngzǐ, Xúnzǐ, Dàodéjīng, Zhuāngzǐ, Hán Fēi, Guō Xiàng, Zhū Xī, Wáng Yángmíng, and Dài Zhèn.

Exclusion: [EAS241H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL238H1 - Reason and Irrationality

Previous Course Number: PHL247H1

Hours: 36L

How does one live one's life without falling victim to various forms of irrationality? This course offers theoretical insight and practical guidance regarding norms of rationality and how we can live by them. Topics to be addressed include: informal logic; criteria for the assessment of arguments; common fallacies; truth and noncontradiction as norms; cognitive biases; "thinking fast and slow" and behavioral economics; conspiracy theories; and media ethics.

Exclusion: [TRN200Y1](#), [PHL247H1](#), [PHL145H5](#), [PHL238H5](#), [PHL247H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL239H1 - Introduction to South Asian Philosophy

Hours: 36L

An introduction to the main schools, thinkers, and topics in the philosophical thought of the Sanskrit world, covering various topics, from epistemology to philosophy of religion. Students will get acquainted with one of the world's richest philosophical traditions and its challenges.

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL240H1 - Persons, Minds and Bodies

Hours: 36L

Consciousness and its relation to the body; personal identity and survival; knowledge of other minds; psychological events and behaviour.

Exclusion: [PHLB81H3](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL243H1 - Philosophy of Human Sexuality

Hours: 36L

Philosophical issues about sex and sexual identity in the light of biological, psychological and ethical theories of sex and gender; the concept of gender; male and female sex roles; perverse sex; sexual liberation; love and sexuality.

Exclusion: [PHLB12H3](#), [PHL243H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL244H1 - Human Nature

Hours: 36L

Aspects of human nature, e.g., emotion, instincts, motivation. Theories of human nature, e.g., behaviourism, psychoanalysis.

Exclusion: [PHLB91H3](#), [PHL244H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL245H1 - Modern Symbolic Logic

Hours: 36L

An introduction to formal deductive logic. Semantics, symbolization, and techniques of natural deduction in sentential logic. Symbolization, natural deduction, and models in monadic predicate logic. Symbolization and natural deduction with polyadic predicates. Introduction to advanced concepts in first-order logic, such as operations, identity, and models.

Exclusion: [PHLB50H3](#), [PHL245H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL246H1 - Probability and Inductive Logic

Hours: 36L

The elements of axiomatic probability theory and its main interpretations (frequency, logical, and subjective). Reasoning with probabilities in decision-making and science.

Exclusion: [PHL246H5](#)

Recommended Preparation: [PHL245H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL255H1 - Philosophy of Science

Hours: 24L/12T

This course is an introduction to contemporary topics in the philosophy of science which serves as preparation for more advanced study in general philosophy of science and philosophy of the particular sciences. Topics may include the rise and fall of logical positivism, the problem of demarcation, falsificationism, confirmation, the connection between theory and observation, the value free ideal, and the epistemic authority of scientists.

Exclusion: [HPS250H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHL256H1 - Philosophy of the Internet

Hours: 36L

The internet and digital technology have had a transformative impact on the economy, society and politics, art and culture, and everyday life. This course explores the fascinating, often urgent, new philosophical questions raised by these changes as well as the way they invite a rethinking of many older philosophical questions. Topics to be addressed may include ethical problems relating to artificial intelligence and algorithms; identity through social media; digital ownership and privacy; and collective/distributed knowledge in its relation to information, among others.

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL265H1 - Introduction to Political Philosophy

Hours: 36L

An introduction to central issues in political philosophy, e.g., political and social justice, liberty and the criteria of good government. The writings of contemporary political philosophers, as well as major figures in the history of philosophy, may be considered.

Exclusion: [PHLB17H3](#), [PHL265H5](#)

Breadth Requirements: Society and its Institutions (3)

PHL268H1 - Philosophy and Social Criticism

Hours: 36L

Is the objective of philosophy to understand and interpret the world, or to change it? A study of theorists who have taken philosophy to be a tool for social criticism. Topics studied may include feminism, critical race theory, anti-consumerism, the critique of mass society, new social movements and conservative cultural criticism.

Breadth Requirements: Society and its Institutions (3)

PHL269H1 - Philosophy of Race

Hours: 24L/12T

What is the meaning of race? How does it affect political philosophy? Is there an ethics of race? These are some of the questions that will be covered in this course on the critical philosophy of race. Students will be introduced to problems concerning the metaphysics of race, race and political injustice, ethics and recognition, race and aesthetic critique, and others.

Breadth Requirements: Society and its Institutions (3)

PHL271H1 - Law and Morality

Hours: 36L

Justifications for the legal enforcement of morality; particular ethical issues arising out of the intersection of law and morality, such as punishment, freedom of expression and censorship, autonomy and paternalism, constitutional protection of human rights.

Exclusion: [PHLB11H3](#), [PHL271H5](#)

Breadth Requirements: Society and its Institutions (3)

PHL273H1 - Environmental Ethics

Hours: 36L

A study of environmental issues raising questions of concern to moral and political philosophers, such as property rights, responsibility for future generations, and the interaction of human beings with the rest of nature. Typical issues: sustainable development, alternative energy, the preservation of wilderness areas, animal rights.

Exclusion: [PHLB02H3](#), [PHL273H5](#)

Breadth Requirements: Society and its Institutions (3)

PHL275H1 - Introduction to Ethics

Hours: 36L

An introduction to central issues in ethics or moral philosophy, such as the objectivity of values, the nature of moral judgements, rights and duties, the virtues, and consequentialism. Readings may be drawn from a variety of contemporary and historical sources.

Exclusion: PHLB07H3, PHL275H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL276H1 - Philosophy of Sports

Hours: 24L/12T

Sports play a complex role in contemporary society. They offer recreational participants a source of meaning in life and professional participants a livelihood. They inspire intense devotion from fans. They are a crucible for debates about fair play, medical enhancement, sex, gender, race, and sexuality. This course will explore the nature and ethics of sports.

Breadth Requirements: Society and its Institutions (3)

PHL277H1 - Ethics and Data

Hours: 24L/12T

An introduction to fundamental ethical problems raised by "Big Data." Topics may include: fairness in data collection; algorithmic discrimination; data privacy; and moral puzzles stemming from the application of machine learning to everyday decision-making.

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL281H1 - Bioethics

Hours: 36L

An introduction to the study of moral and legal problems in medical practice and in biomedical research; the development of health policy. Topics include: concepts of health and disease, patient rights, informed consent, allocation of scarce resources, euthanasia, abortion, genetic and reproductive technologies, human research, and mental health.

Exclusion: PHLB09H3, PHL283H5

Breadth Requirements: Society and its Institutions (3)

PHL285H1 - Aesthetics

Hours: 36L

An historical and systematic introduction to the main questions in the philosophy of art and beauty from Plato to the present. These include the relation between art and beauty, the nature of aesthetic experience, definitions and theories of art, the criteria of excellence in the arts, and the function of art criticism.

Exclusion: PHLB03H3, PHL285H5

Breadth Requirements: Creative and Cultural Representations (1)

PHL295H1 - Business Ethics

Hours: 36L

Philosophical issues in ethics, social theory, and theories of human nature insofar as they bear on contemporary conduct of business. Issues include: Does business have moral responsibilities? Can social costs and benefits be calculated? Does modern business life determine human nature or the other way around? Do political ideas and institutions such as democracy have a role within business?

Exclusion: PHLB06H3, PHL295H5

Breadth Requirements: Society and its Institutions (3)

PHL299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PHL301H1 - Early Greek Philosophy

Hours: 36L

A study of selected Greek philosophers before Plato. Topics may include the Pre-Socratic natural philosophers, Parmenides and the Eleatics, and the so-called sophistic movement.

Prerequisite: PHL200Y1, 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL302H1 - Ancient Philosophy After Aristotle

Hours: 36L

A study of selected themes in post-Aristotelian philosophy. Topics may include Stoicism, Epicureanism, Neoplatonism, and various forms of scepticism.

Prerequisite: PHL200Y1, 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL303H1 - Plato

Hours: 36L

Selected metaphysical, epistemological, and ethical themes in Plato's dialogues.

Prerequisite: PHL200Y1, 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: PHL301H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL304H1 - Aristotle

Hours: 36L

Selected anthropological, ethical and metaphysical themes in the works of Aristotle.

Prerequisite: PHL200Y1, 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: PHL302H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL305H1 - Classical Islamic Philosophy

Previous Course Number: PHL336H1

Hours: 36L

An introduction to the major thinkers in classical Islamic philosophy, with emphasis placed on developing a

properly philosophical understanding of the issues and arguments. Topics include the existence of God; creation and causality; human nature and knowledge; the nature of ethical obligations; and the constitution of the ideal political state.

Prerequisite: PHL200Y1, 7.5 credits with at least 1.5 credits in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL306H1 - Post-Classical Islamic Philosophy

Hours: 36L

An advanced introduction to philosophical movements in the Islamic world in the wake of Avicenna. Topics include developments in metaphysics, epistemology, philosophy of mind, value theory, and philosophical methodology from the 12th to the 17th century that arose in response to new social, political, religious, and scientific currents.

Prerequisite: 7.5 credits with at least 1.5 credits in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL307H1 - Augustine

Hours: 36L

Central themes in St. Augustine's Christian philosophy, such as the problem of evil, the interior way to God, the goal of human life and the meaning of history.

Prerequisite: PHL200Y1/ PHL205H1, 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL308H1 - Aquinas

Hours: 36L

Philosophical innovations that St. Thomas Aquinas made in the course of constructing a systematic theology: essence and existence, the Five Ways, separate intelligences, the human soul and ethics.

Prerequisite: PHL200Y1/ PHL205H1/ PHL206H1, 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL309H1 - Topics in Medieval Philosophy

Hours: 36L

Study of a major philosophical figure from the medieval period, such as Anselm, Abelard, Bonaventure, Maimonides, Avicenna, Duns Scotus, William of Ockham; or consideration of a central philosophical topic in a variety of medieval authors, for example, universals, individuation, the existence of God, free will and free choice, eternity and creation.

Prerequisite: PHL200Y1/ PHL205H1/ PHL206H1, 7.5 courses (in any field) with at least 1.5 in philosophy
Breadth Requirements: Thought, Belief and Behaviour (2)

PHL310H1 - The Rationalists

Hours: 36L

Central philosophical problems in philosophers such as Descartes, Spinoza, Leibniz, and their contemporaries.

Prerequisite: PHL210Y1, 7.5 courses (in any field) with at least 1.5 in philosophy
Exclusion: PHLC35H3
Breadth Requirements: Thought, Belief and Behaviour (2)

PHL311H1 - The Empiricists

Hours: 36L

Central philosophical problems in philosophers such as Locke, Berkeley, Hume, and their contemporaries.

Prerequisite: PHL210Y1, 7.5 courses (in any field) with at least 1.5 in philosophy
Exclusion: PHLC36H3
Breadth Requirements: Thought, Belief and Behaviour (2)

PHL313H1 - Topics in 17th and 18th Century Philosophy

Hours: 36L

Central philosophical problems arising in the early modern period.

Prerequisite: PHL210Y1, 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: PHL313H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL314H1 - Kant

Hours: 36L

A systematic study of The Critique of Pure Reason.

Prerequisite: PHL210Y1, 7.5 courses (in any field) with at least 1.5 in philosophy
Exclusion: PHLC37H3, PHL314H5
Breadth Requirements: Thought, Belief and Behaviour (2)

PHL315H1 - Topics in 19th-Century Philosophy

Hours: 36L

Central philosophical problems arising in the 19th century.

Prerequisite: PHL210Y1, 7.5 courses (in any field) with at least 1.5 in philosophy
Exclusion: PHL315H5
Breadth Requirements: Thought, Belief and Behaviour (2)

PHL316H1 - Hegel

Hours: 36L

An examination of Hegel's project of absolute knowing, its philosophical assumptions, and its implications for history, science and experience.

Prerequisite: PHL210Y1, 7.5 courses (in any field) with at least 1.5 in philosophy
Breadth Requirements: Thought, Belief and Behaviour (2)

PHL317H1 - Marx and Marxism

Hours: 36L

An examination of some of the leading themes in the philosophy of Karl Marx. Developments of Marxist philosophy by later thinkers, and critics of Marxism, may also be considered.

Prerequisite: 7.5 courses (in any field) with at least 1.5 in philosophy

Recommended Preparation: [PHL265H1](#)/ [POL200Y1](#)
Breadth Requirements: Thought, Belief and Behaviour (2)

PHL319H1 - Philosophy and Psychoanalytic Theory

Hours: 36L

A study of the fundamentals of psychoanalytic theory from a philosophical perspective, focusing on the works of Freud and others. Topics include mind (conscious and unconscious), instinctual drives, mechanisms of defence, the structure of personality, civilization, the nature of conscience, and the status of psychoanalysis.

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL320H1 - Phenomenology

Hours: 36L

Phenomenology is a method used in the analysis of human awareness and subjectivity. It has been applied in the social sciences, in the humanities, and in philosophy. Texts studied are from Husserl and later practitioners, e.g., Heidegger, Sartre, Merleau-Ponty, Gurwitsch, and Ricoeur.

Prerequisite: [PHL210Y1](#)/ [PHL217H1](#), 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL321H1 - Heidegger

Hours: 36L

Some work from the 1920s (either Being and Time or contemporary lectures) and selections from Heidegger's later work on poetry, technology, and history are studied. Heidegger's position within phenomenology and within the broader history of thought is charted.

Prerequisite: [PHL217H1](#), 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL323H1 - Social and Cultural Theory

Hours: 36L

A study of philosophical approaches to understanding various aspects of contemporary culture and/or society. Topics may include theories of modernity, capitalism and consumerism, architecture and design, cultural pluralism, globalization, media and internet.

Prerequisite: 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Society and its Institutions (3)

PHL325H1 - Early Analytic Philosophy

Hours: 36L

An examination of some of the classic texts of early analytic philosophy, concentrating on the work of Frege, Russell, and Wittgenstein.

Prerequisite: [PHL245H1](#)/ [MAT157Y1](#) and one of [PHL232H1](#)/ [PHL233H1](#)/ [PHL240H1](#), 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: [PHLC43H3](#), [PHL325H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL327H1 - Ethics and Religion in Sanskrit Philosophy

Hours: 36L

This course covers topics in Sanskrit philosophy, with a special focus on ethics and/or philosophy of religion. Students will investigate specific primary texts (in translation) and will learn how to recognize and analyze the philosophical arguments they contain. Example texts and ideas include: theology and atheism in various Sanskrit schools (with selected readings from Dharmakīrti, Udayana, Rāmānuja etc.); the place of ethics in Sanskrit philosophy and beyond (with selected readings from Śāntideva, B.K. Matilal and epic and juridical texts).

Prerequisite: 7.5 credits with 1.5 credits in PHL

Recommended Preparation: [PHL239H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL328H1 - Metaphysics and Epistemology in Sanskrit Philosophy

Hours: 36L

This course covers topics in Sanskrit philosophy, with a special focus on metaphysics and epistemology (and related issues in philosophy of language and logic). Students will investigate specific primary texts (in

translation) and will learn how to recognize and analyze the philosophical arguments they contain. Example texts and ideas include: the Upaniṣads, the Mahābhārata, the Buddhist dialogues, the Nyāya- and Vaiśeṣika-sūtra, the works of Dignāga, and others.

Prerequisite: 7.5 credits (in any field) with at least 1.5 credits in Philosophy

Recommended Preparation: [PHL239H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL329H1 - Topics in 20th Century Continental Philosophy

Previous Course Number: PHL322H1

Hours: 36L

Selected topics and themes in continental philosophy of the 20th century, drawing on such approaches as hermeneutics, phenomenology, critical theory, structuralism, deconstruction, feminism, psychoanalysis, and post-colonial theory. Authors and texts will vary, but may include such authors as: Adorno, Arendt, Benjamin, Bloch, Deleuze, Derrida, Fanon, Foucault, Freud, Gadamer, Habermas, Heidegger, Irigaray, Kristeva, Lacan, Levi-Strauss, Levinas, Merleau-Ponty.

Prerequisite: 8.0 credits, including [PHL217H1](#) and an additional 1.5 PHL credits

Exclusion: [PHL322H1](#), [PHL324H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL330H1 - Contemporary Continental Philosophy

Hours: 36L

A discussion of selected problems and debates in recent Continental philosophy. Authors and texts will vary, but may include such authors as: Giorgio Agamben, Alain Badiou, Étienne Balibar, Judith Butler, Jacques Derrida, Catherine Malabou, Achille Mbembe, Quentin Meillassoux, Jean-Luc Nancy, Jacques Rancière, Gayatri Spivak, Slavoj Žižek, Sylvia Wynter.

Prerequisite: 8.0 credits, including [PHL217H1](#) and an additional 1.5 PHL credits

Recommended Preparation: [PHL329H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL331H1 - Metaphysics

Hours: 36L

Historical and systematic approaches to topics in metaphysics, such as the nature of reality, substance and existence, necessity and possibility, causality, universals and particulars.

Prerequisite: 7.5 credits with at least 1.5 PHL credits, including ([PHL245H1/ MAT157Y1](#)), ([PHL232H1/ PHL233H1/ PHL240H1](#))

Exclusion: [PHLC60H3](#), [PHL332H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL332H1 - Epistemology

Hours: 36L

Historical and systematic approaches to topics in the theory of knowledge, such as truth, belief, justification, perception, a priori knowledge, certitude, skepticism, other minds.

Prerequisite: [PHL232H1/ PHL233H1](#), 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: [PHLC20H3](#), [PHL333H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL333H1 - Puzzles and Paradoxes

Hours: 36L

Time travel, truth, infinity, rational decision making: each of these topics gives rise to philosophical puzzles and paradoxes. In this class we'll consider a variety of such paradoxes. Using logic and other philosophical tools, we'll show how these paradoxes can lead to deep and important philosophical conclusions.

Prerequisite: 7.5 credits, with at least 1.5 credits in philosophy, [PHL245H1/ MAT157Y1](#)

Exclusion: [PHLB55H3](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL334H1 - Mind and Language in Chinese Thought

Issues in the philosophy of mind and language played a crucial role in the philosophical discourse of classical China. This course will guide students in reconstructing this role and exploring its philosophical significance by

interpreting and critically evaluating selected early Chinese philosophical texts that treat mind, language, and interrelated aspects of psychology. Topics to be discussed include the nature and functions of names and speech; the role of “correcting names”; semantic theory and argumentation; perception and knowledge; the role of language in knowledge and action; and the ontological grounds of linguistic distinctions. Texts to be discussed include the Analects, Guānzǐ, Mòzǐ, Mèngzǐ, Dàodéjīng, Xúnzǐ, Zhuāngzǐ, and Annals of Mr. Lǚ.

Prerequisite: 7.5 credits, with at least 1.5 PHL credits including [PHL237H1](#)

Exclusion: [EAS338H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL335H1 - Issues in Philosophy of Religion

Hours: 36L

Some specific problem(s) in the philosophy of religion, such as the relationship of religious faith and religious belief, the ontological argument for the existence of God, theories about divine transcendence, the philosophical presuppositions of religious doctrines, the modern critique of religion.

Prerequisite: 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL337H1 - Classical Chinese Ethics

Hours: 36L

This course explores and critiques personal and social ethical ideals as presented in early Chinese Confucian, Mohist, and Daoist writings and considers their relevance to issues in contemporary ethics. Major texts discussed include the Analects, Mèngzǐ, Xúnzǐ, Mòzǐ, Dàodéjīng, and Zhuāngzǐ. Central questions examined include: What is the way (dào)? What standards can guide us in following the way? What grounds can we have for confidence that these are the correct standards? What kind of person should we strive to be? What is virtue (dé)? What values take priority in a life of virtue? How does the person of virtue act?

Prerequisite: 7.5 credits, with at least 1.5 PHL credits including [PHL237H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL338H1 - Jewish Philosophy

Hours: 36L

A selection of texts and issues in Jewish philosophy, for example, Maimonides' Guide of the Perplexed, Buber's The Prophetic Faith, prophecy and revelation, Divine Command and morality, creation and eternity, the historical dimension of Jewish thought.

Prerequisite: 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL340H1 - Issues in Philosophy of Mind

Hours: 36L

Typical issues include: the mind-brain identity theory; intentionality and the mental; personal identity.

Prerequisite: One of [COG250Y1](#)/ [PHL240H1](#), 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: [PHLC95H3](#), [PHL340H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL341H1 - Freedom, Responsibility, and Human Action

Hours: 36L

Human action, and the nature of freedom and responsibility in the light of contemporary knowledge concerning the causation of behaviour.

Prerequisite: [PHL210Y1](#)/ [PHL232H1](#)/ [PHL233H1](#)/ [PHL240H1](#), 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: [PHL341H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL342H1 - Minds and Machines

Hours: 36L

An investigation of philosophical questions raised by contemporary cognitive science and artificial intelligence (AI). Possible topics to be addressed: whether machines could think and be conscious; the computational theory of mind; embodied cognition and the extended mind

hypothesis; the “singularity”; and moral and political implications of machine learning research.

Prerequisite: 8.0 credits, including COG250Y1 or 1.5 credits in PHL

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL344H1 - Philosophy of Emotions

Hours: 36L

A survey of philosophical topics related to the emotions, from a range of philosophical perspectives. Questions to be considered may include the following: What exactly is an emotion? Are emotions feelings? What emotions are there, and how are they shaped by culture and society? How are emotions related to reason, the brain and the body? What role do -- and should -- the emotions play in decision-making? Can an emotion be morally right or wrong, and what makes it so?

Prerequisite: PHL240H1/ PHL244H1/ PHL342H1, 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL345H1 - Intermediate Logic

Hours: 36L

A continuation of PHL245H1, requiring no other prior knowledge of philosophy or mathematics. First-order logic, including basic metalogical results such as soundness and completeness. An introduction to basic set theory and metalogic. Topics may include the Loewenheim-Skolem theorems for first-order logic, Goedel's incompleteness theorems.

Prerequisite: PHL245H1/ MAT157Y1 and a full course in PHL/CSC/MAT

Exclusion: PHLC51H3, PHL345H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL347H1 - Modal Logic and Philosophical Applications of Logic

Hours: 36L

Formal study of the concepts of necessity and possibility, modal, propositional and quantificational logic, possible-worlds semantics, and the metaphysics of modality. Other topics may include counterfactuals, truth, vagueness, epistemic logic, temporal logic, or non-classical logic.

Prerequisite: PHL245H1/ MAT157Y1 and a full course in PHL/CSC/MAT

Exclusion: PHL347H5

Recommended Preparation: PHL345H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL348H1 - Logic and Computation

Hours: 36L

Topics will include Kurt Gödel's celebrated incompleteness theorems, the technical ideas and methods involved in proving them, their relation to the abstract theory of computation, and their philosophical implications. Are there mathematical truths that cannot be known? Are mathematical concepts such as number and set indeterminate to some extent? Are there limits to what can be modeled formally?

Prerequisite: PHL245H1/ MAT157Y1 and a full course in PHL/CSC/MAT

Exclusion: MAT309H1/ CSC438H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL349H1 - Set Theory

Hours: 36L

An introduction to set theory emphasizing its philosophical relevance as a unifying framework for mathematics and logic. Topics examined may include the paradoxes of the 'naïve' conception of sets and their resolution through axiomatization, the construction of natural numbers and real numbers in set theory, equivalents of the axiom of choice, and model theory.

Prerequisite: PHL245H1/ MAT157Y1 and a full course in PHL/CSC/MAT

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL351H1 - Philosophy of Language

Hours: 36L

The nature of language as a system of human communication, theories of meaning and meaningfulness, the relation of language to the world and to the human mind.

Prerequisite: PHL245H1/ MAT157Y1 and one of PHL232H1/ PHL233H1/ PHL240H1, 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: PHLC80H3, PHL350H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL354H1 - Philosophy of Mathematics

Previous Course Number: PHL346H1

Hours: 36L

Platonism versus nominalism, the relation between logic and mathematics, implications of Gödel's theorem, formalism and intuitionism.

Prerequisite: PHL245H1/ MAT157Y1 and a full course in PHL/CSC/MAT

Exclusion: PHL346H1, PHL346H5, PHL344H5, PHL354H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL355H1 - Philosophy of Natural Science

Hours: 36L

The structure and methods of science: explanation, methodology, realism and instrumentalism.

Prerequisite: 7.5 credits which include one of the following combinations: (1) PHL255H1 and an additional 1.0 PHL credit or (2) 1.5 PHL credits and HPS250H1

Exclusion: PHL355H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL356H1 - Philosophy of Physics

Hours: 36L

Introduction to philosophical issues which arise in modern physics, especially in relativity and quantum mechanics. This course will be accessible to students without a significant background in physics, but with an interest in the philosophical challenges that modern physics poses.

Prerequisite: One full course in MAT/PHY; two full courses are recommended.

Breadth Requirements: The Physical and Mathematical Universes (5)

PHL357H1 - Philosophy of Biology

Hours: 36L

Philosophical issues in the foundations of biology, e.g., the nature of life, evolutionary theory; controversies about natural selection; competing mechanisms, units of selection; the place of teleology in biology; biological puzzles about sex and sexual reproduction; the problem of species; genetics and reductionism; sociobiology; natural and artificial life.

Prerequisite: 7.5 credits which include one of the following: (1) PHL255H1 and an additional 1.0 PHL credit, (2) 1.5 PHL credits and HPS250H1, or (3) 1.5 credits in BCH/ BIO/ CSB/ EEB/ HMB/ IMM/ LMP/ MGY/ NFS/ PHC/ PCL/ PSL/ PSY.

Exclusion: PHL357H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL358H1 - Philosophy of Psychiatry

Hours: 36L

An advanced introduction to topics at the intersection of philosophy and psychiatry. Topics may include: what makes something a psychiatric disease? What can psychiatric syndromes tell us about the nature of moods and decision-making? Do some psychiatric patients act with less agency, and should they have less moral or criminal responsibility?

Prerequisite: 8.0 credits including 1.5 PHL credits or 1.0 PHL credit and PSY240H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL362H1 - Philosophy of History

Hours: 36L

Typical questions include: Has history any meaning? Can there be general theories of history? How are the findings of historians related to the theories of metaphysics and of science? Is history deterministic? Must the historian make value judgements? Is history science or an art? Are there historical forces or spirits of an epoch?

Prerequisite: 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL365H1 - Political Philosophy

Hours: 36L

A study of some of the central problems of political philosophy, addressed by historical and contemporary political theorists.

Prerequisite: [PHL265H1](#)/ [POL200Y1](#), 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: [PHLC92H3](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL366H1 - Topics in Political Philosophy

Hours: 39L

A focused examination of a selected issue in political philosophy.

Prerequisite: [PHL265H1](#)/ [POL200Y1](#), 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL367H1 - Philosophy of Feminism

Hours: 36L

Selected issues and topics in the philosophy of feminism.

Prerequisite: [PHL265H1](#)/ [PHL268H1](#), 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: [PHLC13H3](#), [PHL367H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL369H1 - Philosophy of Race, Gender, and Capitalism

Hours: 36L

How should our understanding of capitalism be shaped by the realities of racial domination and gender oppression? What are the different accounts of justice and injustice that would emerge from trying to think through these three phenomena together? Or are they really one phenomenon? This course will survey the complex philosophical debates, both historical and contemporary, concerning the specificities and interrelationships between race, gender, and capitalism.

Prerequisite: 8.0 credits, including [PHL265H1](#)/ [PHL268H1](#)/ [PHL269H1](#) and 1.5 credits in PHL

Exclusion: [PHLC13H3](#), [PHL367H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL370H1 - Issues in Philosophy of Law

Hours: 36L

Major issues in philosophy of law, such as legal positivism and its critics, law and liberalism, feminist critiques of law, punishment and responsibility.

Prerequisite: [PHL271H1](#), 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: [PHL370H5](#)

Recommended Preparation: [PHL265H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL373H1 - Issues in Environmental Ethics

Hours: 36L

An intermediate-level examination of key issues in environmental philosophy, such as the ethics of animal welfare, duties to future generations, deep ecology, ecofeminism, sustainable development and international justice.

Prerequisite: [PHL273H1](#), 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL375H1 - Ethics

Hours: 36L

An intermediate-level study of selected issues in moral philosophy, or of influential contemporary or historical works in ethical theory.

Prerequisite: [PHL275H1](#), 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: [PHLC05H3](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL376H1 - Topics in Moral Philosophy

Hours: 36L

A focused examination of a selected issue in moral philosophy.

Prerequisite: PHL275H1, 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: PHLC06H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL377H1 - Ethical Issues in Big Data

Hours: 36L

An intermediate-level treatment of fundamental ethical problems arising in “Big Data” and artificial intelligence. Formal tools from economics and statistics will be applied to emerging ethical technology issues such as model transparency, data bias, and privacy. Broader political issues such as the geopolitics of AI may also be covered.

Prerequisite: 9.0 credits in any field, with at least 1.5 in PHL including 0.5 from PHL273H1/ PHL275H1/ PHL281H1/ PHL295H1

Recommended Preparation: 0.5 credit from STA220H1/ STA237H1/ STA247H1/ STA257H1/ ECO220Y1/ ECO227Y1/ EEB225H1/ GGR270H1/ IRW220H1/ PSY201H1/ SOC300Y1/ STA288H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL378H1 - War and Morality

Hours: 36L

Moral and political issues concerning warfare: the theory of the just war, pacifism, moral constraints on the conduct of war, war as an instrument of foreign policy, the strategy of deterrence. Special attention to the implications of nuclear weapons.

Prerequisite: PHL265H1/ PHL275H1, 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL380H1 - Global Bioethics

Hours: 36L

An intermediate-level study of moral problems that arise in international contexts, including issues of special interest in bioethics: moral universalism and relativism; global distributive justice; poverty relief and international aid; international health disparities; globalization and health; HIV/AIDS; intellectual property and access to essential medicines; clinical trials in developing countries; exploitation and the 10/90 gap.

Prerequisite: PHL281H1, 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL381H1 - Ethics and Medical Research

Hours: 36L

An intermediate-level study of problems in biomedical and behavioural research with human subjects: informed voluntary consent, risk and benefit, experimental therapy, randomized clinical trials, research codes and legal issues, dependent groups (human embryos, children, the aged, hospital patients, the dying, prisoners, the mentally ill).

Prerequisite: PHL281H1, 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL382H1 - Ethics: Death and Dying

Hours: 36L

An intermediate-level study of moral and legal problems, including the philosophical significance of death, the high-tech prolongation of life, definition and determination of death, suicide, active and passive euthanasia, the withholding of treatment, palliative care and the control of pain, living wills; recent judicial decisions.

Prerequisite: PHL281H1, 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL383H1 - Ethics and Mental Health

Hours: 36L

An intermediate-level study of moral and legal problems, including the concepts of mental health and illness, mental competence, dangerousness and psychiatric confidentiality, mental institutionalization, involuntary treatment and behaviour control, controversial therapies; legal issues: the Mental Health Act, involuntary commitment, the insanity defence.

Prerequisite: PHL281H1, 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL384H1 - Ethics, Genetics and Reproduction

Hours: 36L

An intermediate-level study of moral and legal problems, including the ontological and moral status of the human embryo and fetus; human newborn, carrier and prenatal genetic screening for genetic defect, genetic therapy; the reproductive technologies (e.g., artificial insemination, in vitro fertilization); recent legislative proposals and judicial decisions.

Prerequisite: PHL281H1, 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL385H1 - Issues in Aesthetics

Hours: 36L

Selected topics in the philosophy of art. Such issues as the following are discussed: whether different arts require different aesthetic principles; relations between art and language; the adequacy of traditional aesthetics to recent developments in the arts; art as an institution.

Prerequisite: 7.5 courses (in any field) with at least 1.5 in philosophy

Exclusion: PHLC03H3

Recommended Preparation: PHL285H1

Breadth Requirements: Creative and Cultural Representations (1)

PHL388H1 - Literature and Philosophy

Hours: 36L

An examination of the interplays and tensions between literature and philosophy. Possible themes include: the 'literary' expression of philosophical ideas; the ancient 'quarrel of the poets and philosophers'; the relation of form to content in philosophical writing, and the immense variety of philosophical genres (e.g. aphorism, *essai*, confession, treatise, dialogue, manifesto, meditation, etc.); the philosophical content and significance of certain 'literary' works and forms; and philosophical problems regarding translation, adaptation, and interpretation. Topics and texts will vary according to instructor.

Prerequisite: 8.0 credits, including 1.5 credits in PHL

Breadth Requirements: Creative and Cultural Representations (1)

PHL394H1 - Markets and Morals

Hours: 36L

A study of the standards that can be used to judge the performance of economic systems, e.g., efficiency, fairness, maximization, along with the different institutional mechanisms that can be used to organize economic activity, e.g., markets or hierarchies, public or private ownership.

Prerequisite: One of PHL265H1/ PHL275H1/ POL200Y1, 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Society and its Institutions (3)

PHL395H1 - Issues in Business Ethics

Hours: 36L

A focused examination of moral issues that arise in the conduct of business, in areas such as accounting and finance, corporate governance, human resources, environmental conduct, business lobbying and regulatory compliance.

Prerequisite: PHL295H1, 7.5 courses (in any field) with at least 1.5 in philosophy

Breadth Requirements: Society and its Institutions (3)

PHL398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

PHL398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

PHL399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PHL400H1 - Seminar in Ancient/Medieval Philosophy

Hours: 36S

Advanced discussion of the principal figures and themes in ancient and/or medieval philosophy.

Prerequisite: PHL200Y1, 4.0 credits in philosophy

PHL401H1 - Seminar in the History of Philosophy

Hours: 36S

Advanced study of some of the principal figures in a particular historical, philosophical tradition.

Prerequisite: PHL200Y1/ PHL210Y1

PHL402H1 - Seminar in Early Modern Philosophy

Hours: 36S

Advanced discussion of the principal figures and themes in the philosophy of the 17th and/or 18th centuries.

Prerequisite: PHL210Y1, 4.0 credits in philosophy

PHL403H1 - Seminar in 19th-Century Philosophy

Hours: 36S

Advanced discussion of some principal figures and themes in 19th century philosophy.

Prerequisite: PHL210Y1/ PHL217H1/ PHL315H1/ PHL316H1, 4.0 credits in philosophy

PHL404H1 - Seminar in Epistemology

Hours: 36S

Typical problems include the nature of knowledge and belief; perception; theories of truth and necessity; skepticism.

Prerequisite: PHL232H1/ PHL233H1, 4.0 credits in philosophy

PHL405H1 - Seminar in Philosophy of Mind

Hours: 36S

Advanced study of a problem in the philosophy of mind.

Prerequisite: PHL240H1/ PHL342H1/ COG250Y1, 4.0 credits in philosophy

PHL406H1 - Seminar in Metaphysics

Hours: 36S

Typical problems include causality and determinism; ontological categories; mind and body; the objectivity of space and time.

Prerequisite: 4.0 credits in Philosophy including (one of PHL245H1/ MAT157Y1) and (PHL232H1/ PHL233H1/ PHL240H1)

PHL407H1 - Seminar in Ethics

Hours: 36S

Advanced discussion of issues in moral philosophy, including issues of applied ethics.

Prerequisite: PHL275H1, 4.0 credits in philosophy

PHL408H1 - Seminar in Philosophy

Hours: 36S

Topics vary but bridge two or more areas or traditions of philosophy.

Prerequisite: 4.0 credits in philosophy

PHL409H1 - New Books Seminar

Hours: 36S

Advanced study of key philosophical works published within the last five years.

Prerequisite: 4.0 credits in philosophy

PHL410H1 - Seminar in Continental Philosophy

Hours: 36S

Advanced study of recent philosophical discussions within the continental tradition.

Prerequisite: PHL217H1/ PHL315H1/ PHL316H1/ PHL319H1/ PHL320H1/ PHL321H1/ PHL322H1, 4.0 credits in philosophy

PHL411H1 - Seminar in Analytic Philosophy

Hours: 36S

Advanced study of some topic of current philosophical interest within the analytic tradition.

Prerequisite: PHL245H1/ MAT157Y1 and one of PHL232H1/ PHL233H1/ PHL240H1, 4.0 credits in philosophy

PHL412H1 - Seminar in Political Philosophy

Hours: 36S

Advanced study of some topic in social or political philosophy.

Prerequisite: PHL265H1/ PHL271H1, 4.0 credits in philosophy

PHL413H1 - Seminar in Applied Ethics

Hours: 36S

Advanced study of some topic in an area of applied ethics, including bioethics, environmental ethics, and so on.

Prerequisite: PHL271H1/ PHL273H1/ PHL275H1/ PHL281H1, 4.0 credits in philosophy

PHL414H1 - Seminar in Philosophy of Religion

Hours: 36S

Advanced study of topics in the philosophy of religion.

Prerequisite: PHL235H1/ PHL335H1, 4.0 credits in philosophy

PHL416H1 - Seminar in Philosophy of Law

Hours: 36S

Advanced discussion of issues in the philosophy of law.

Prerequisite: PHL265H1/ PHL271H1, one of PHL365H1/ PHL370H1/ PHL375H1, 4.0 credits in philosophy
Breadth Requirements: Thought, Belief and Behaviour (2)

PHL417H1 - Seminar in History of Analytic Philosophy

Hours: 36S

Advanced study of a figure or topic from the history of analytic philosophy.

Prerequisite: PHL325H1, 4.0 credits in philosophy
Breadth Requirements: Thought, Belief and Behaviour (2)

PHL418H1 - Seminar in Sanskrit Philosophy

Hours: 36S

Advanced study of one or more topics in Sanskrit Philosophy.

Prerequisite: 4.0 PHL credits or permission of the instructor
Recommended Preparation: PHL339H1
Breadth Requirements: Thought, Belief and Behaviour (2)

PHL440H1 - Clinical Bioethics

Hours: 36S

Advanced study of topics in bioethics, taught in conjunction with clinical bioethicists associated with the health care organization partners of the University of Toronto Joint Centre for Bioethics.

Prerequisite: PHL281H1, 4.0 credits in philosophy. Limited to students enrolled in the Bioethics Specialist or Bioethics Major programs.

PHL445H1 - Metalogic

Hours: 36S

A continuation of PHL345H1, this is a course in the mathematical study of logic, also known as metalogic. We will investigate and prove theorems about logical systems. Topics covered may include: important results in metalogic, second and higher-order logic, or lambda-calculus.

Prerequisite: PHL345H1/ MAT309H1; 4.0 credits in philosophy

Exclusion: PHL445H5; PHLD51H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL446H1 - Seminar in Decision Theory

Hours: 36S

Decision theory studies what one ought to do when some more or less desirable outcomes of one's actions depend on external facts about which one is uncertain. Uncertainty is characterized in terms of probabilities, desires are characterized in terms of utilities, and together they determine the expected utility of one's actions. This course introduces these notions and their mathematical representations, as well as critically reflects on philosophical questions such as whether one should always take the action that maximize one's expected utility, whether uncertainty is subjective or objective, and why uncertainty does, or ought to, obey the laws of probability.

Prerequisite: PHL246H1, 4.0 Credits in Philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL447H1 - Seminar in Philosophical Logic

Hours: 36S

Advanced discussion of some topic in philosophical logic.

Prerequisite: PHL245H1/ MAT157Y1; one of PHL246H1/ PHL345H1/ PHL347H1/ PHL445H1/ MAT309H1; 4.0 credits in philosophy

Breadth Requirements: Thought, Belief and Behaviour (2)

PHL451H1 - Seminar in Philosophy of Language

Hours: 36S

Advanced study of some topic in the philosophy of language.

Prerequisite: 4.0 PHL credits, including (PHL245H1/ MAT157Y1), (PHL232H1/ PHL233H1/ PHL240H1)

PHL455H1 - Seminar in Philosophy of Science

Previous Course Number: PHL415H1

Hours: 36S

Advanced study of some area or problem in the philosophy of science.

Prerequisite: One of PHL355H1, PHL357H1 or HPS250H1, 4.0 credits in philosophy

PHL470H1 - Advanced Bioethics

Hours: 36S

Philosophical exploration of the foundations and methodology of bioethics. Offered jointly with PHL2145H.

Prerequisite: PHL281H1 and one of PHL380H1/ PHL381H1/ PHL382H1/ PHL383H1/ PHL384H1, and permission of the instructor and Department (by ballot). Limited to students enrolled in the Bioethics Specialist or Bioethics Major programs.

PHL471H1 - Advanced Topics in Greek Philosophy

Hours: 36S

Advanced Topics in Greek Philosophy

Prerequisite: [PHL200Y1](#) and permission of the instructor and Department (by ballot)

PHL472H1 - Advanced Topics in Medieval Philosophy

Hours: 36S

Advanced Topics in Medieval Philosophy

Prerequisite: [PHL200Y1](#)/ [PHL205H1](#)/ [PHL206H1](#) and permission of the instructor and Department (by ballot)

PHL473H1 - Advanced Topics in Modern Philosophy

Hours: 36S

Advanced Topics in Modern Philosophy

Prerequisite: [PHL210Y1](#) and permission of the instructor and Department (by ballot)

PHL475H1 - Advanced Topics in Moral Philosophy

Hours: 36S

Advanced Topics in Moral Philosophy

Prerequisite: [PHL275H1](#) and permission of the instructor and Department (by ballot)

PHL476H1 - Advanced Topics in Epistemology

Hours: 36S

Advanced Topics in Epistemology

Prerequisite: [PHL232H1](#)/ [PHL233H1](#) and permission of the instructor and Department (by ballot)

PHL477H1 - Advanced Topics in Metaphysics

Hours: 36S

Advanced Topics in Metaphysics

Prerequisite: [PHL232H1](#)/ [PHL233H1](#) and permission of the instructor and Department (by ballot)

PHL478H1 - Advanced Topics in Philosophy of Religion

Hours: 36S

Advanced Topics in Philosophy of Religion

Prerequisite: [PHL235H1](#)/ [PHL335H1](#) and permission of the instructor and Department (by ballot)

PHL479H1 - Advanced Topics in Philosophy of Mind

Hours: 36S

Advanced Topics in Philosophy of Mind

Prerequisite: [COG250Y1](#)/ [PHL240H1](#)/ [PHL340H1](#)/ [PHL341H1](#)/ [PHL342H1](#) and permission of the instructor and Department (by ballot)

PHL480H1 - Advanced Topics in Logic

Hours: 36S

Advanced Topics in Logic

Prerequisite: Two of [PHL344H1](#) - [PHL349H1](#) and permission of the instructor and Department (by ballot)

PHL481H1 - Advanced Topics in the Philosophy of Language

Hours: 36S

Advanced Topics in the Philosophy of Language

Prerequisite: [PHL351H1](#) and permission of the instructor and Department (by ballot)

PHL482H1 - Advanced Topics in Philosophy of Natural Science

Hours: 36S

Advanced Topics in Philosophy of Natural Science

Prerequisite: One of [PHL355H1](#), [PHL357H1](#) or [HPS250H1](#), and permission of the instructor and Department (by ballot)

PHL483H1 - Advanced Topics in Social and Political Philosophy

Hours: 36S

Advanced Topics in Social and Political Philosophy

Prerequisite: [PHL265H1](#) and permission of the instructor and Department (by ballot)

PHL484H1 - Advanced Topics in the Philosophy of Law

Hours: 36S

Advanced Topics in the Philosophy of Law

Prerequisite: [PHL271H1](#) and permission of the instructor and Department (by ballot)

PHL485H1 - Advanced Topics in Aesthetics

Hours: 36S

Advanced Topics in Aesthetics

Prerequisite: [PHL285H1](#)/ [PHL385H1](#) and permission of the instructor and Department (by ballot)

PHL486H1 - Advanced Topics in Philosophy of History

Hours: 36S

Advanced Topics in Philosophy of History

Prerequisite: [PHL362H1](#) and permission of the instructor and Department (by ballot)

PHL487H1 - Advanced Topics in Philosophy

Advanced Topics in Philosophy

Prerequisite: Permission of the instructor and Department

PHL488H1 - Advanced Topics in Philosophy

Advanced Topics in Philosophy

Prerequisite: Permission of the instructor and Department

PHL489Y1 - Advanced Topics in Philosophy: Socrates Project

Socrates Project Seminar. The Socrates Project Seminar allows exceptional senior undergraduate students to become teaching assistants for a 1st year PHL course. In addition to grading and leading tutorials, Socrates Project students enroll in [PHL489Y1](#) as a condition of their employment. Students are expected to apply for the Socrates Project in March prior to the start of the Fall/Winter term. Admission to the Socrates Project is limited to students enrolled in a Philosophy or Bioethics program. A minimum of 80% in PHL courses is required. Information about the Socrates Project including the application form can be found at <https://philosophy.utoronto.ca/st-george/undergraduate-at-st-george/socrates-project-undergraduate-tas/>

Prerequisite: Permission of the instructor and Department

PHL490Y1 - Individual Studies

Individual Studies. Not eligible for CR/NCR option. Students must complete an Individual Study application form (found on the Department of Philosophy website) in consultation with their proposed faculty supervisor. The application form must be submitted to the Undergraduate Administrator by the first day of classes.

PHL495H1 - Individual Studies

Individual Studies. Not eligible for CR/NCR option. Students must complete an Individual Study application form (found on the Department of Philosophy website) in consultation with their proposed faculty supervisor. The application form must be submitted to the Undergraduate Administrator by the first day of classes.

PHL496H1 - Individual Studies

Individual Studies. Not eligible for CR/NCR option. Students must complete an Individual Study application form (found on the Department of Philosophy website) in consultation with their proposed faculty supervisor. The application form must be submitted to the Undergraduate Administrator by the first day of classes.

PHL497H1 - Individual Studies

Individual Studies. Not eligible for CR/NCR option. Students must complete an Individual Study application form (found on the Department of Philosophy website) in consultation with their proposed faculty supervisor. The application form must be submitted to the Undergraduate Administrator by the first day of classes.

PHL498H1 - Individual Studies

Individual Studies. Not eligible for CR/NCR option. Students must complete an Individual Study application form (found on the Department of Philosophy website) in consultation with their proposed faculty supervisor. The application form must be submitted to the Undergraduate Administrator by the first day of classes.

PHL499H1 - Individual Studies

Individual Studies. Not eligible for CR/NCR option. Students must complete an Individual Study application form (found on the Department of Philosophy website) in consultation with their proposed faculty supervisor. The application form must be submitted to the Undergraduate Administrator by the first day of classes.

Physics

Faculty List

Professor and Chair of the Department

P.J. Kushner, BSc, MSc, PhD

Professor and Associate Chair (Undergraduate Studies)

P.K. Sinervo, BSc, PhD, FRSC, CM

Professor and Associate Chair (Graduate Studies)

Y.-J. Kim, BS, PhD

University Professors

J.R. Bond, MS, PhD, OC, FRSC, FRS (cross-appointed)

S. John, SB, PhD, FRSC

R.J.D. Miller, BSc, PhD, FRSC

W.R. Peltier, BSc, MSc, PhD, FRSC

A.M. Steinberg, BS, MA, PhD, FRSC

Professors

V. Barzda, MSc, PhD (UTM)

C. Gradinaru, BSc, MSc, PhD (UTM)

D.F.V. James, BA, PhD

D.B.A. Jones, BA, SM, PhD

S.R. Julian, BSc, MSc, PhD

H.-Y. Kee, BSc, MSc, PhD

Y.B. Kim, BSc, MSc, PhD

P. Krieger, BSc, MSc, PhD

Q. Liu, BSc, PhD

J. Lowman, BSc, MSc, PhD (UTSC)

M. Luke, BSc, AM, PhD

G.W.K. Moore, BSc, PhD (UTM)

B. Netterfield, BS, PhD

A. Paramekanti, BTech, PhD

A.W. Peet, BSc, PhD

E. Poppitz, MSc, MA, PhD

P. Savard, BSc, MSc, PhD

J.E. Sipe, ScB, MSc, PhD, FRSC

K. Strong, BSc, DPhil, FRSC

R. Teuscher, BSc, MSc, PhD

J. Thywissen, BS, SM, PhD

W. Trischuk, BSc, PhD

K.A. Walker, BSc, PhD

Professor, Teaching Stream

J. Harlow, BSc, PhD

Associate Professors

D. Curtin, BSc, PhD

S. Goyal, BTech, MS, PhD

N. Grisouard, BSc, MSc, PhD

A. Hilfinger, MSc, PhD (UTM)

N. Ilic, BSc, PhD

R.S. Marjoribanks, BSc, MSc, MS, PhD

J.N. Milstein, BS, PhD (UTM)

S. Rauscher, BSc, PhD (UTM)

W. Ryu, AB, PhD

A. Vutha, MSc, PhD

J.T. Wei, BA, MS, MPhil, PhD

D. Wunch, BSc, MSc, PhD

Associate Professor, Teaching Stream

A. Harlick, MSc, MSc, PhD

Assistant Professors

B. Braverman, BSc, PhD

S. de la Barrera, BSc, MSc, PhD

M. Diamond, BSc, MSc, PhD

Z. Hong, BSc, MSc, PhD

C. Lee, MPhys, DPhil

X. Li, BSc, PhD

M. O'Neill, BS, PhD

E. Rosenblum, BSc, MSc, PhD

Z. Su, BS, PhD

Assistant Professors, Teaching Stream

M. Robbins, BSc, MSc, PhD

M. Russo, BMus, BSc, MSc, PhD

B. Wilson, BSc, MSc, PhD

Cross-Appointed Faculty

J. Abbatt, BSc, PhD, FRSC

A.-A. Dhirani, BSc, PhD

R. Essick, BSc, PhD

M. Fishbach, BSc, PhD

H.-K. Lo, BA, MSc, PhD

D. McMillen, BSc, MSc, PhD (UTM)

K. Menou, PhD (UTSC)

N. Murray, PhD

U.-L. Pen, MSc, PhD

R. Pysklywec, MSc, PhD

H. Rein, MAST, PhD (UTSC)

B. Ripperda, BSc, MSc, MSc, PhD

D. Segal, BSc, PhD

A. Swidinsky, BSc, MSc, PhD

A.C. Thompson, BS, PhD, FRSC

D. Valencia, BA, BSc, MSc, PhD (UTSC)

K. Vanderlinde, BSc, PhD

A. von Lilienfeld, Diplom, PhD

M. Wells, BSc, PhD (UTSC)

N. Wiebe, BSc, MSc, PhD

Adjunct and Status Only

J. Hall, BSc, MSc, PhD

A.M. Kubik, BSc, PhD

J.M. Lilly, BS, MS, PhD

S. Malbrunot-Ettenauer, Dipl. Ing., PhD

Z. Mariani, BSc, MSc, PhD

R. Nassar, BSc, BEd, PhD

P. Rayner, BSc, PhD

T. Scaffidi, BE, BSc, MSc, DPhil

S. Scorza, Diplom, PhD

F. Vogel, MSc, PhD
C. Whaley, BSc, MSc, MSc, PhD

University Professor Emeritus

A.E. Litherland, BSc, PhD, FRSC, FRS

Professors Emeriti

R.C. Bailey, BSc, PhD
R.F. Code, AM, PhD (UTM)
T.E. Drake, MSc, PhD
J.R. Drummond, MA, DPhil, FRSC
D.J. Dunlop, MA, PhD, FRSC (UTM)
C. Dyer, PhD (UTSC)
R.N. Edwards, BSc, PhD, CPhys, FInstP
R.M. Farquhar, MA, PhD, FRSC (UTM)
G.M. Graham, MSc, PhD
R. Holdom, MA, PhD
M.L.G. Joy, MAsc, PhD
A.W. Key, MA, DPhil
J.D. King, BA, DPhil (UTSC)
R.K. Logan, BSc, PhD
J. Martin, BSc, DPhil
A.D. May, MA, PhD
B. Milkereit, MSc, PhD
J.W. Moffat, PhD, DSc
S.W. Morris, BSc, MSc, PhD
K.H. Norwich, MSc, MD, PhD
R.S. Orr, BSc, PhD, FRSC
D.A.L. Paul, BA, PhD
J.M. Perz, MAsc, PhD (UTSC)
H.M. van Driel, MSc, PhD, FRSC
G.F. West, MA, PhD, FRSC
S.S.M. Wong, MSc, PhD
T.S. Yoon, MSc, PhD
R.P. Young, BSc, MSc, PhD, FRSC

Associate Professor Emeritus

D.C. Bailey, BSc, PhD

Associate Professor Emerita, Teaching Stream

R.M. Serbanescu, MSc, PhD

Senior Lecturer Emeritus

D. Harrison, BSc, PhD

sciences, as well as Philosophy. In addition, the Physics Major and Minor programs give the student the option of mixing Physics with the nearly limitless array of science and non-science programs available across the University. As well, students have the opportunity to do original research and to undertake independent supervised studies for course credit.

A program in physics has much to offer. Beyond the traditional careers of teaching and research, a knowledge of physics is a powerful asset in professions like Medicine or Law, or for careers involving the environmental, geological or biological sciences. An understanding of physics is essential for those who are concerned about how society is affected by climate change or advanced technology. The conceptual problem-solving tools one acquires as a physicist can be applied with great success to many occupations.

The Physics Specialist Program offers intensive training in all aspects of physics. Courses can be selected in order to emphasize the experimental, theoretical or applied sides of physics. In fourth year, students intending to undertake graduate studies are encouraged to take advanced optional courses. These courses, which reflect the excellence and research diversity of the faculty, are offered in areas such as Relativity, High Energy Physics, Quantum Optics, Condensed Matter, Geophysics and Atmospheric Physics.

The Specialist Program in Biological Physics combines the analytical problem solving skills of the physicist with sound backgrounds in relevant biology and biochemistry. The interface between biology and physics lies at the forefront of the rapidly growing field of quantitative biology.

The Departmental website gives detailed information on programs and courses, and describes the operation of the Department and the counseling services available. All students, most particularly those entering first year, are strongly urged to consult the website before term begins.

Associate Chair (Undergraduate Studies):
Professor P. Krieger, Room 328, McLennan Physical Laboratories (416-978-6674)
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Website: <https://www.physics.utoronto.ca/>

Introduction

Physics forms the bedrock of our understanding of Nature. Any physical object or process, or even the structure of the whole universe itself, can be the subject of physics. Physicists study an extremely diverse array of systems, from the simplest subatomic particles to the most complex processes found in biological cells or in the Earth's climate. Physics provides a comprehensive set of fundamental tools that can be brought to bear on many problems across a wide variety of fields.

Students can choose between Specialist Programs in Physics or Physics combined with numerous other

Physics Programs

Biological Physics Specialist (Science Program)

The Biological Physics specialist program focuses on the physical principles that underlie the organization of complex biological systems. How do cells use energy input to complex and dynamic molecular structures? How do cells overcome noise to transmit information and measure molecular concentrations on the nanoscale? How do millions of cells in the immune system coordinate precise responses to viruses and bacteria? How do neurons in the nervous system transmit and process information? How does blood flow through a beating heart? Biological Physics deals with problems at the interface of Physics, Molecular Biology, and Physiology, and covers the full range of scales, from the molecular, to the organismic. Students in this program will be trained to think rigorously and quantitatively about a wide range of interdisciplinary problems, will be well prepared to work in a variety of fields such as medicine and biotechnology, and will be ready to undertake graduate work in the fast-emerging field of Biological Physics and its related specialties including Immunology, Physiology, Neuroscience, and Bioengineering.

The program is offered as a partnership between the Departments of Physics, Biochemistry, Chemistry, Immunology, and Physiology (referred to as "partner departments"). All students take the Core courses in Physics, Mathematics, Biology, Biochemistry, and Chemistry. The Core also includes specialized courses in Biological Physics ([PHY331H1](#), [PHY431H1](#)) and a third-year laboratory course from one of the partner departments. Students then choose one of four Streams (below) consisting of additional courses from the partner departments.

Biological Physics Specialist: Advanced Physics Stream (Science Program) - ASSPE2739

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in

the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Biological Physics Specialist: Advanced Physics Stream in the Summer [after](#) Year 2.

Completion Requirements:

Core Biological Physics Courses (12.0 credits)

First Year (3.0 credits): ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#), ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#), [PHY131H1](#)/ [PHY151H1](#), [PHY132H1](#)/ [PHY152H1](#) ([PHY151H1](#), [PHY152H1](#) recommended)

First or Second Year (1.0 credit): [BIO130H1](#), [MAT223H1](#)

Second Year (3.0 credits): [BCH210H1](#), ([MAT235Y1](#)/ [MAT237Y1](#)), [MAT244H1](#), [PHY250H1](#), [PHY252H1](#)

Second or Third Year (0.5 credit): [BIO230H1](#)/ [BIO255H1](#)

Third Year (2.0 credits): [PHY224H1](#), [PHY254H1](#), [PHY256H1](#), [PHY354H1](#)

Third or Fourth Year (2.5 credits):

1. [PHY331H1](#), [PHY431H1](#)
2. [PHY324H1](#)/ [BCH370H1](#)/ [CHM327H1](#)/ [PSL372H1](#)
3. 1.0 credit, including at least 0.5 credit at the 400-level, from [APM346H1](#)/ [PHY 300-level courses](#)/ [PHY 400-level courses](#) ([APM346H1](#), [PHY350H1](#), [PHY356H1](#), [PHY407H1](#), [PHY452H1](#), [PHY454H1](#), [PHY460H1](#) recommended)

Additional Requirements for the Advanced Physics Stream (2.5 credits):

1. ([BCH311H1](#), [BCH340H1](#))/ ([PSL300H1](#), [PSL301H1](#))
2. 1.5 credits, including at least 0.5 credit at the 400-level, from [PHY 300-level courses](#), [PHY 400-level courses](#)

Integrative, Inquiry-Based Activity Requirement

The choices in the program must satisfy the requirement for an integrative, inquiry-based activity by including at least one of the following courses: [PHY371Y1](#), [PHY372H1](#), [PHY378H1](#), [PHY379Y1](#), [PHY396Y0](#), [PHY397Y0](#), [PHY398H0](#), [PHY398Y0](#), [PHY399Y0](#), [PHY399Y1](#), [PHY407H1](#), [PHY424H1](#), [PHY426H1](#), [PHY428H1](#), [PHY429H1](#), [PHY471Y1](#), [PHY472H1](#), [PHY478H1](#), [PHY479Y1](#).

Students in this program have the option to complete the [Arts & Science Internship Program \(ASIP\)](#) stream.

Notes:

Students are encouraged but not required to enrol in the independent project courses [PHY478H1](#)/ [PHY479Y1](#). These students may be supervised by faculty in the Departments of Physics, Biochemistry, Chemistry, Immunology, and Physiology. Students are required to have a B average in the program courses, identify a supervisor, and consult the Associate Chair of Physics (Undergraduate Studies) before enrolling in [PHY478H1](#)/ [PHY479Y1](#).

Students might wish to enrol in 300- and 400-level courses in the partner life science departments that are not listed above, including independent research or project courses. These students will need approval to take these courses from the Associate Chair (Undergraduate Studies) prior to enrolment in the course.

Biological Physics Specialist: Biochemistry Stream (Science Program) - ASSPE2737

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Biological Physics Specialist: Biochemistry Stream in the Summer after Year 2.

Completion Requirements:

Core Biological Physics Courses (12.0 credits):

First Year (3.0 credits): ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#), ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#), [PHY131H1](#)/ [PHY151H1](#), [PHY132H1](#)/ [PHY152H1](#) ([PHY151H1](#), [PHY152H1](#) recommended)

First or Second Year (1.0 credit): [BIO130H1](#), [MAT223H1](#)

Second Year (3.0 credits): [BCH210H1](#), ([MAT235Y1](#)/ [MAT237Y1](#)), [MAT244H1](#), [PHY250H1](#), [PHY252H1](#)

Second or Third Year (0.5 credit): [BIO230H1](#)/ [BIO255H1](#)

Third Year (2.0 credits): [PHY224H1](#), [PHY254H1](#), [PHY256H1](#), [PHY354H1](#)

Third or Fourth Year (2.5 credits):

1. [PHY331H1](#), [PHY431H1](#)
2. [PHY324H1](#)/ [BCH370H1](#)/ [CHM327H1](#)/ [PSL372H1](#)
3. 1.0 credit, including at least 0.5 credit at the 400-level, from [APM346H1](#)/ [PHY 300-level courses](#)/ [PHY 400-level courses](#) ([APM346H1](#), [PHY350H1](#), [PHY356H1](#), [PHY407H1](#), [PHY452H1](#), [PHY454H1](#), [PHY460H1](#) recommended)

Additional Courses for the Biochemistry Stream (2.5 credits):

1. [BCH311H1](#), [BCH340H1](#)
2. 1.5 credits from [BCH370H1](#)/ [CSB428H1](#)/ [BCH 400-level courses](#) ([BCH422H1](#), [BCH425H1](#), [BCH426H1](#), [BCH428H1](#), [BCH440H1](#), [BCH450H1](#) recommended). Excludes [BCH472Y1](#), [BCH473Y1](#), [BCH478H1](#), [BCH479H1](#).

Integrative, Inquiry-Based Activity Requirement

The choices in the program must satisfy the requirement for an integrative, inquiry-based activity by including at least one of the following courses: [PHY371Y1](#), [PHY372H1](#), [PHY378H1](#), [PHY379Y1](#), [PHY396Y0](#), [PHY397Y0](#), [PHY398H0](#), [PHY398Y0](#), [PHY399Y0](#), [PHY399Y1](#), [PHY407H1](#), [PHY424H1](#), [PHY426H1](#), [PHY428H1](#), [PHY429H1](#), [PHY471Y1](#), [PHY472H1](#), [PHY478H1](#), [PHY479Y1](#), [BCH472Y1](#) and [BCH473Y1](#).

Students in this program have the option to complete the [Arts & Science Internship Program](#) (ASIP) stream.

Notes:

Students are encouraged but not required to enroll in the independent project courses [PHY478H1](#)/ [PHY479Y1](#). These students may be supervised by faculty in the Departments of Physics, Biochemistry, Chemistry, Immunology, and Physiology. Students are required to have a B average in the program courses, identify a supervisor, and consult the Associate Chair of Physics (Undergraduate Studies) before enrolling in [PHY478H1](#)/ [PHY479Y1](#).

Students might wish to enrol in 300- and 400-level courses in the partner life science departments that are not listed above, including independent research or project courses. These students will need approval to take these courses from the Associate Chair (Undergraduate Studies) prior to enrolment in the course.

On approval of the Department of Physics, students who take [CHM222H1](#) will not have to take [PHY252H1](#).

Biological Physics Specialist: Immunology Stream (Science Program) - ASSPE2740

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Biological Physics Specialist: Immunology Stream in the Summer after Year 2.

Completion Requirements:

Core Biological Physics Courses (12.0 credits)

First Year (3.0 credits): ([CHM135H1](#), [CHM136H1](#)) / [CHM151Y1](#), ([MAT135H1](#), [MAT136H1](#)) / [MAT137Y1](#), [PHY131H1](#) / [PHY151H1](#), [PHY132H1](#) / [PHY152H1](#) ([PHY151H1](#), [PHY152H1](#) recommended)

First or Second Year (1.0 credit): [BIO130H1](#), [MAT223H1](#)

Second Year (3.0 credits): [BCH210H1](#), ([MAT235Y1](#) / [MAT237Y1](#)), [MAT244H1](#), [PHY250H1](#), [PHY252H1](#)

Second or Third Year (0.5 credit): [BIO230H1](#) / [BIO255H1](#)

Third Year (2.0 credits): [PHY224H1](#), [PHY254H1](#), [PHY256H1](#), [PHY354H1](#)

Third or Fourth Year (2.5 credits):

1. [PHY331H1](#), [PHY431H1](#)
2. [PHY324H1](#) / [BCH370H1](#) / [CHM327H1](#) / [PSL372H1](#)
3. 1.0 credit, including at least 0.5 credit at the 400-level from [APM346H1](#) / [PHY 300-level courses](#) / [PHY 400-level courses](#) ([APM346H1](#), [PHY350H1](#), [PHY356H1](#), [PHY407H1](#), [PHY452H1](#), [PHY454H1](#), [PHY460H1](#) recommended)

Additional Courses for the Immunology Stream (2.5 credits):

1. [IMM341H1](#), [IMM351H1](#) (Students in the Biological Physics Specialist Immunology Stream are permitted to take [BIO230H1](#) as a co-requisite to [IMM341H1](#), instead of as a prerequisite, by permission of the Department of

Immunology)

2. 1.0 credit from ([STA220H1](#) / [STA288H1](#), [STA221H1](#)) or ([STA237H1](#), [STA238H1](#)) and 0.5 credit from IMM 400-level courses, OR

0.5 credit from [STA220H1](#) / [STA288H1](#) and 1.0 credit from IMM 400-level courses

Integrative, Inquiry-Based Activity Requirement

The choices in the program must satisfy the requirement for an integrative, inquiry-based activity by including at least one of the following courses: [PHY371Y1](#), [PHY372H1](#), [PHY378H1](#), [PHY379Y1](#), [PHY396Y0](#), [PHY397Y0](#), [PHY398H0](#), [PHY398Y0](#), [PHY399Y0](#), [PHY399Y1](#), [PHY407H1](#), [PHY424H1](#), [PHY426H1](#), [PHY428H1](#), [PHY429H1](#), [PHY471Y1](#), [PHY472H1](#), [PHY478H1](#), [PHY479Y1](#), [IMM385Y1](#), [IMM435H1](#) and [IMM450Y1](#).

Students in this program have the option to complete the [Arts & Science Internship Program](#) (ASIP) stream.

Notes:

Students are encouraged but not required to enrol in the independent project courses [PHY478H1](#) / [PHY479Y1](#). These students may be supervised by faculty in the Departments of Physics, Biochemistry, Chemistry, Immunology, and Physiology. Students are required to have a B average in the program courses, identify a supervisor, and consult the Associate Chair of Physics (Undergraduate Studies) before enrolling in [PHY478H1](#) / [PHY479Y1](#).

Students might wish to enrol in 300- and 400-level courses in the partner life science departments that are not listed above, including independent research courses. These students will need approval to take these courses from the Associate Chair (Undergraduate Studies) prior to enrolment in the course.

On approval of the Department of Physics, students who take [CHM222H1](#) will not have to take [PHY252H1](#).

Biological Physics Specialist: Physiology Stream (Science Program) - ASSPE2738

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry,

starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Biological Physics Specialist: Physiology Stream in the Summer after Year 2.

Completion Requirements:

Core Biological Physics Courses (12.0 credits):

First Year (3.0 credits): ([CHM135H1](#), [CHM136H1](#))/ [CHM151Y1](#), ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#), [PHY131H1](#)/ [PHY151H1](#), [PHY132H1](#)/ [PHY152H1](#) ([PHY151H1](#), [PHY152H1](#) recommended)

First or Second Year (1.0 credit): [BIO130H1](#), [MAT223H1](#)

Second Year (3.0 credits): [BCH210H1](#), ([MAT235Y1](#)/ [MAT237Y1](#)), [MAT244H1](#), [PHY250H1](#), [PHY252H1](#)

Second or Third Year (0.5 credit): [BIO230H1](#)/ [BIO255H1](#)

Third Year (2.0 credits): [PHY224H1](#), [PHY254H1](#), [PHY256H1](#), [PHY354H1](#)

Third or Fourth Year (2.5 credits):

1. [PHY331H1](#), [PHY431H1](#)
2. [PHY324H1](#)/ [BCH370H1](#)/ [CHM327H1](#)/ [PSL372H1](#)
3. 1.0 credit, including at least 0.5 credit at the 400-level, from [APM346H1](#)/ [PHY 300-level courses](#)/ [PHY 400-level courses](#) ([APM346H1](#), [PHY350H1](#), [PHY356H1](#), [PHY407H1](#), [PHY452H1](#), [PHY454H1](#), [PHY460H1](#) recommended)

Additional Courses for the Physiology Stream (2.5 credits):

1. [PSL300H1](#), [PSL301H1](#)
2. 1.5 credits, including at least 0.5 credit at the 400-level, from [PSL304H1](#)/ [PSL305H1](#)/ [PSL372H1](#)/ [PSL 400-level courses](#) ([PSL432H1](#), [PSL440Y1](#), [PSL445H1](#), [PSL452H1](#) recommended)

Integrative, Inquiry-Based Activity Requirement

The choices in the program must satisfy the requirement for an integrative, inquiry-based activity by including at least one of the following courses: [PHY371Y1](#), [PHY372H1](#), [PHY378H1](#), [PHY379Y1](#), [PHY396Y0](#), [PHY397Y0](#), [PHY398H0](#), [PHY398Y0](#), [PHY399Y0](#), [PHY399Y1](#), [PHY407H1](#), [PHY424H1](#), [PHY426H1](#), [PHY428H1](#), [PHY429H1](#), [PHY471Y1](#), [PHY472H1](#), [PHY478H1](#), [PHY479Y1](#), [PSL398H0](#), [PSL398Y0](#), [PSL399Y1](#), [PSL498Y1](#) and [PSL499H1](#).

Students in this program have the option to complete the [Arts & Science Internship Program](#) (ASIP) stream.

Notes:

Students are encouraged but not required to enrol in the independent project courses [PHY478H1](#)/ [PHY479Y1](#). These students may be supervised by faculty in the Departments of Physics, Biochemistry, Chemistry, Immunology, and Physiology. Students are required to have a B average in the program courses, identify a supervisor, and consult the Associate Chair of Physics (Undergraduate Studies) before enrolling in [PHY478H1](#)/ [PHY479Y1](#).

Students might wish to enrol in 300- and 400-level courses in the partner life science departments that are not listed above, including independent research or project courses. These students will need approval to take these courses from the Associate Chair (Undergraduate Studies) prior to enrolment in the course.

On approval of the Department of Physics, students who take [CHM222H1](#) will not have to take [PHY252H1](#).

Physics and Philosophy Specialist (Science Program) - ASSPE2584

Physics has deep historical roots in natural philosophy and many aspects of contemporary Physics raise profound philosophical questions about the nature of reality. The interdisciplinary Physics and Philosophy Program allows the student to engage with both Physics and Philosophy at their deepest levels, and to more fully explore the connections between them.

Consult Associate Chair (Undergraduate Studies), Department of Physics or Philosophy.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(15.0 credits, including at least 1.5 credits at the 400-level)

First Year: (2.5 credits)

([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#), [MAT223H1](#)/ [MAT240H1](#), [PHY131H1](#)/ [PHY151H1](#), [PHY132H1](#)/ [PHY152H1](#) (The courses [MAT137Y1](#), [MAT223H1](#), [PHY151H1](#), [PHY152H1](#) are recommended.)

First or Second Year: (1.5 credits)

1.5 credits of: PHL232H1/ PHL233H1/ PHL240H1/ PHL245H1/ HPS250H1/ PHL255H1 (PHL245H1 may only be counted here if MAT157Y1 is not taken)

Second Year: (3.0 credits)

MAT237Y1/ MAT257Y1/ MAT235Y1, MAT244H1/ MAT267H1, PHY250H1, PHY254H1, PHY256H1 (The courses MAT237Y1, MAT244H1 are recommended.)

Third Year: (2.0 credits)

MAT334H1/ MAT354H1, PHY252H1, (PHY350H1/ PHY354H1), PHY356H1

Fourth Year: (1.0 credit)

PHY456H1, PHY491H1

Any Year: (5.0 credits)

(PHL345H1/ PHL347H1), PHL355H1, PHL356H1, (PHL415H1/ PHL455H1/ PHL482H1), plus 1.0 credit of (PHL325H1/ PHL331H1/ PHL332H1/ PHL346H1/ PHL354H1/ PHL357H1) plus 2.0 additional PHL credits, at least 0.5 credit of which must be from Course Group 2 - Value Theory (The courses PHL265H1, PHL275H1 are recommended.)

Group 2 - Value Theory:

PHL265H1, PHL295H1, PHL365H1, PHL366H1, PHL370H1, PHL375H1, PHL407H1, PHL412H1, PHL413H1, PHL483H1

Physics Specialist (Science Program) - ASSPE1944

The Physics Specialist Program offers rigorous training in the full spectrum of core physics subfields, as well as their numerous important applications. Practical courses treat the experimental and computational aspects and complement the lecture courses. Physics concerns many of the most fundamental questions in our scientific understanding of the universe. What is the nature of matter and energy at the smallest scales? What are the physical processes that govern the Earth's climate? What is the nature of light and how can it be controlled? How do the collective properties of solids emerge from those of individual atoms? How do biological processes organize themselves to maintain their survival? What is the structure and evolution of the Earth and the other planets? How can quantum information be used for computation? Physics seeks answers to these questions using a combination of theory, computation and precise experimental work, and the results find application across all of science.

Consult the Associate Chair (Undergraduate Studies), Department of Physics.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Physics Specialist in the Summer after Year 2.

Completion Requirements:

(13.5 credits, including 1.0 credit at the 400-level)

First Year: (2.5 credits)

(MAT135H1, MAT136H1/ MAT137Y1/ MAT157Y1, MAT223H1/ MAT240H1, PHY131H1/ PHY151H1, PHY132H1/ PHY152H1

(The courses MAT137Y1, MAT223H1, PHY151H1, PHY152H1 are recommended.)

Second Year: (4.0 credits)

MAT237Y1/ MAT257Y1/ MAT235Y1, MAT244H1/ MAT267H1, PHY224H1, PHY250H1, PHY252H1, PHY254H1, PHY256H1

(The courses MAT237Y1, MAT244H1 are recommended.)

Second or Third Year: (0.5 credit)

PHY324H1

Third Year: (3.0 credits)

1. APM346H1, MAT334H1/ MAT354H1, PHY350H1, PHY354H1, PHY356H1

2. Additional 0.5 credit from PHY 300-level courses/ PHY 400-level courses/ JPE395H1/ JPE493H1, excluding JPH311H1, JPH441H1

Third or Fourth Year: (3.5 credits)

1. PHY424H1

2. 1.0 credit from PHY450H1, PHY452H1, PHY454H1, PHY456H1, PHY460H1

3. PHY405H1/ PHY407H1/ PHY408H1/ PHY426H1/ PHY478H1. See Note 2.

4. 1.0 credit, including at least a 0.5 PHY credit at the 400-level, from PHY 300-level courses/ PHY 400-level courses/ JPE395H1/ JPE493H1, excluding JPH311H1, JPH441H1

5. Ethics and Social Responsibility Requirement: The Physics course JPH441H1 meets this requirement as well as any of the following courses: HPS200H1/ ENV222H1/ ENV333H1/ ESS205H1/ PHL273H1/ VIC172Y1/ AST310H1. See Note 3.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

1. Students are encouraged but not required to enrol in the independent study and project courses such as PHY371Y1, PHY478H1, etc.

2. PHY479Y1 (Undergraduate Research Project) satisfies Requirement 3 in Third or Fourth Year and counts as a 0.5 credit at the PHY 400-level for Requirement 4 in Third or Fourth Year. Students may use MAT351Y1 instead of APM346H1 for Requirement 1 in Third Year.

3. Requirement 5 in Third or Fourth Year represents a 0.5 credit with a significant emphasis on "Ethics and Social Responsibility", in the context of the physical sciences. Students may use the CR/NCR option towards any of the courses listed in Requirement 5. Another Arts & Science course with a significant emphasis on "Ethics and Social Responsibility", in the context of the physical sciences, may be substituted subject to approval from the Associate Chair (Undergraduate Studies).

4. The requirement for an integrative, inquiry-based activity is satisfied by the required course PHY424H1.

Physics Major (Science Program) - ASMAJ1944

A Physics Major program is appropriate for students interested in a more flexible and diverse undergraduate physics program. A Physics Major may be tailored to be a natural counterpart to a second Major in mathematics, astronomy, computer science, environmental science, geology or the life sciences. Students should consult the Associate Chairs (Undergraduate Studies) of Physics and the respective departments for advice on course selections.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Physics Major in the Summer after Year 2.

Completion Requirements:

(8.0 credits, including 2.0 credits at the 300+ level, with at least one 0.5 credit at the 400-level)

First Year: (2.0 credits)

(MAT135H1, MAT136H1/ MAT137Y1/ MAT157Y1, PHY131H1/ PHY151H1, PHY132H1/ PHY152H1

Second Year: (3.0 credits)

1. MAT235Y1/ MAT237Y1/ MAT257Y1, MAT223H1/ MAT240H1, PHY224H1

2. 1.0 credit from PHY231H1, PHY250H1, PHY252H1, PHY254H1, PHY256H1, PHY331H1

Third Year: (2.5 credits)

1. MAT244H1/ MAT267H1, PHY324H1/ PHY405H1/ PHY407H1/ PHY408H1

2. 1.5 credits, including at least a 0.5 credit at the PHY 400-level, from APM346H1/ MAT334H1/ MAT354H1/ PHY 300-level courses/ PHY 400-level courses/ JPE395H1/ JPE493H1, excluding JPH311H1, JPH441H1. A maximum of a 0.5 credit from APM346H1/ MAT334H1/ MAT354H1 may be used to fulfil this requirement

Third or Fourth Year: (0.5 credit)

1. Ethics and Social Responsibility Requirement: The Physics course JPH441H1 meets this requirement as well as any of the following courses: HPS200H1/ ENV222H1/ ENV333H1/ ESS205H1/ PHL273H1/ VIC172Y1/ AST310H1. See Note 2.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

1. Students in the Physics Major program who are intending to pursue graduate studies in Physics should consult with the Associate Chair (Undergraduate Studies).

2. Requirement 1 in Third or Fourth Year represents a 0.5 credit with a significant emphasis on "Ethics and Social Responsibility", in the context of the physical sciences. Students may use the CR/NCR option towards any of the courses listed in Requirement 1. Another Arts & Science course with a significant emphasis on "Ethics and Social Responsibility", in the context of the physical sciences, may be substituted subject to approval from the Associate Chair (Undergraduate Studies).

1. PHY224H1

2. 1.5 credits from PHY231H1, PHY250H1, PHY252H1, PHY254H1, PHY256H1

Third Year: (1.0 credit)

1. PHY324H1/ PHY405H1/ PHY407H1/ PHY408H1

2. 0.5 credit from: PHY 300-level course/PHY 400-level course/ JPE395H1/ JPE493H1, excluding JPH311H1, JPH441H1

Physics Minor (Science Program) - ASMIN1944

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year: (1.0 credit)

PHY131H1/ PHY151H1, PHY132H1/ PHY152H1

Second Year: (2.0 credits)

Physics Courses

PHY100H1 - The Magic of Physics

Hours: 24L/12T

This course provides a survey of Physics, including both Classical and Modern Physics. It is designed for non-scientists, and assumes no background in either science or mathematics. The approach to the course is broad rather than deep. We will concentrate on the concepts underlying such fascinating topics as planetary motion, chaos, the nature of light, time travel, black holes, matter waves, Schrodinger's cat, quarks, and climate change. We will uncover the wonders of the classical and the quantum worlds courtesy of Galileo, Newton, Maxwell, Einstein, Heisenberg and many others.

(PHY100H1 is primarily intended as a Breadth Requirement course for students in the Humanities and Social Sciences with no university-level background in

Regarding Physics Courses

More detailed and current information on courses is available through the [Physics Department website](#). Many course numbers have changed in recent years: check the course descriptions and exclusions below for course equivalencies. Pre- and co-requisites are strictly enforced and may only be waived in special circumstances. Students should consult the Physics Associate Chair (Undergraduate Studies) with questions about pre- and co-requisites prior to the beginning of term if they are requesting a waiver. Students without the required pre- and co-requisites will be removed from courses.

physics. Any student with university-level credit in physics, including students with secondary school transfer credits in physics is ineligible to take this course).

Exclusion: Any PHY course taken previously or concurrently (except PHY196H1/ PHY197H1/ PHY198H1/ PHY199H1/ PHY202H1/ PHY205H1/ PHY207H1)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY131H1 - Introduction to Physics I

Hours: 36L/20P

A first university physics course primarily for students not intending to pursue a Specialist or Major program in Physical or Mathematical Sciences. Topics include: classical kinematics & dynamics, momentum, energy, force, friction, work, power, angular momentum, oscillations, waves, sound. Lab kit fees of \$51 may apply.

Corequisite: MAT135H1/ MAT137Y1/ MAT157Y1
recommended

Exclusion: PHY151H1

Recommended Preparation: MCV4U Calculus & Vectors/ MHF4U Functions & Calculus, SPH4U Physics

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY132H1 - Introduction to Physics II

Hours: 36L/20P

The second university physics course primarily for students not intending to pursue a Specialist or Major program in Physical or Mathematical Sciences. Topics include: electricity, magnetism, light, optics, special relativity. Lab kit fees of \$51 may apply.

Prerequisite: PHY131H1/ PHY151H1

Corequisite: MAT136H1/ MAT137Y1/ MAT157Y1
recommended

Exclusion: PHY152H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY151H1 - Foundations of Physics I

Hours: 36L/30P

The first physics course in many of the Specialist and Major Programs in Physical Sciences. It provides an introduction to the concepts, approaches and tools the physicist uses to describe the physical world while laying the foundation for classical and modern mechanics. Topics include: mathematics of physics, energy, momentum, conservation laws, kinematics, dynamics, and special relativity.

Prerequisite: MCV4U Calculus & Vectors / MCB4U Functions & Calculus; SPH4U Physics

Corequisite: MAT137Y1/ MAT157Y1

Exclusion: PHY131H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY152H1 - Foundations of Physics II

Hours: 36L/30P

The concept of fields will be introduced and discussed in the context of gravity and electricity. Topics include rotational motion, oscillations, waves, electricity and magnetism.

Prerequisite: PHY131H1/ PHY151H1/ PHY180H1

Corequisite: MAT137Y1/ MAT157Y1

Exclusion: PHY132H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY189H1 - Introduction to Research Methods in the Physical and Mathematical Sciences

Hours: 24P/24S

This course is an introduction to research challenges and methods in physical and mathematical sciences. Topics include documenting scientific work, literature searches, building a basic measurement system, mathematical modelling and measurement of simple physical systems, basic computational analysis of data, debugging (measurements, analysis, code, ...), evaluating uncertainties, ethical and social issues in science, and communicating scientific work orally and in writing.

Corequisite: MCV4U Calculus & Vectors; SPH4U Physics / SCH4U Chemistry / ICS4U Computer Science / SES4U Earth and Space Science

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY196H1 - Emergence in Nature

Hours: 24S

The universe is not a rigid clockwork, but neither is it formless and random. Instead, it is filled with highly organized, evolved structures that have somehow emerged from simple rules of physics. Examples range from the structure of galaxies to the pattern of ripples on windblown sand, to biological and even social processes. These phenomena exist in spite of the universal tendency towards disorder. How is this possible? Self-organization challenges the usual reductionistic scientific method, and begs the question of whether we can ever really understand or predict truly complex systems. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: No prior experience with physical science will be required, but familiarity with Grade 10 mathematics will be assumed.

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY197H1 - Modern Physics for the Curious

Hours: 24S

Have you wondered about the origin and workings of the natural world around us? Have you found physical science interesting but inaccessible because it was too full of math and jargon? Have you felt a pull to become more science-literate? If so, this seminar course is for you -- or for anyone interested in understanding more about the universe, including our planet, seen through the lens of modern physics. Ideas on the menu will include: particle physics, space and time, relativity, black holes, quantum physics, unification forces, string theory, and big bang cosmology. The intriguing story of these integrated phenomena unfolds over a wide distance and a long time. Students from diverse academic backgrounds are warmly welcome. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: No prior experience with physical science will be required, but familiarity with Grade 10 mathematics will be assumed.

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY198H1 - Physics at the Cutting Edge

Previous Course Number: PHY289H1

Hours: 24L/12S

A limited enrollment seminar course for First Year Science students interested in current research in Physics. Students will meet active researchers studying the universe from the centre of the earth to the edge of the cosmos. Topics may range from string theory to experimental biological physics, from climate change to quantum computing, from superconductivity to earthquakes. The course may involve both individual and group work, essays and oral presentations. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: PHY151H1

Corequisite: PHY152H1, MAT137Y1/ MAT157Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY199H1 - Dark Matter and Dark Energy are the New Black

Hours: 24S

It is now 90 years since astronomers found the first evidence for a form of matter that wasn't part of the stars in our galaxies, but rather is "dark" and has a gravitational attraction to ordinary matter. Other lines of evidence lead us to believe that there is six times more dark matter than the ordinary matter we are familiar with. Despite this, we have no credible, direct evidence for what this dark matter might be. It is one of the biggest puzzles in particle physics and cosmology. In the last decade, we have also

discovered that something else is going on – the universe appears to be filled with "dark energy" that causes the expansion of our universe to speed up instead of slowdown. We will discuss what we know about the hypotheses of dark matter and dark energy, and the debates about what might really be going on. Are we seeing science in crisis, with a revolution just around the corner, or is this just the "normal science" talked about by Kuhn and other philosophers of science? Participants will be expected to participate in seminar-style discussions, as well as take the lead on at least one topic of discussion. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: No prior experience with physical science will be required, but familiarity with Grade 10 mathematics will be assumed.

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY202H1 - The Physics of Science Fiction and Gaming

Hours: 24L/12T

The physics of time travel, teleportation, levitation, invisibility, special effects, and other physics related topics found in literature, film, and gaming. The course will analyze the realism of physical phenomena in these media, and consider the impact of these concepts on science and society.

(PHY202H1 is primarily intended as a Breadth Requirement course for students in the Humanities and Social Sciences with no university-level background in physics. Any student with university-level credit in physics, including students with secondary school transfer credits in physics is ineligible to take this course).

Exclusion: Any PHY course taken previously or concurrently (except PHY196H1/ PHY197H1/ PHY198H1/ PHY199H1/ PHY100H1/ PHY205H1/ PHY207H1).

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY205H1 - The Physics of Everyday Life

Hours: 24L/12T

An introduction to the physics of everyday life. This conceptual course looks at everyday objects to learn about the basis for our modern technological world. Topics may include anything from automobiles to weather.

(PHY205H1 is primarily intended as a Breadth Requirement course for students in the Humanities and

Social Sciences with no university-level background in physics. Any student with university-level credit in physics, including students with secondary school transfer credits in physics is ineligible to take this course).

Exclusion: Any PHY course taken previously or concurrently (except [PHY196H1](#)/ [PHY197H1](#)/ [PHY198H1](#)/ [PHY199H1](#)/ [PHY100H1](#)/ [PHY202H1](#)/ [PHY207H1](#)).

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY207H1 - The Physics of Music

Hours: 24L/12T

An online course intended to provide non-science students with a basic understanding of the science behind sound and music. Topics include oscillations, waves, human hearing and perception of music, musical scales, musical instruments, recording and storing sound digitally, producing sound and broadcasting. Lectures will be delivered via the web and mandatory tutorials will require live webinar participation. The final exam will require attendance on the St. George campus.

([PHY207H1](#) is primarily intended as a Breadth Requirement course for students with no university-level background in physics. Any student with university-level credit in physics, including students with secondary school transfer credits in physics is ineligible to take this course).

Exclusion: Any PHY course taken previously or concurrently (except [PHY196H1](#)/ [PHY197H1](#)/ [PHY198H1](#)/ [PHY199H1](#)/ [PHY100H1](#)/ [PHY202H1](#)/ [PHY205H1](#)).

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY224H1 - Practical Physics I

Hours: 72P

Develops the core practical experimental and computational skills necessary to do physics. Students tackle simple physics questions involving mathematical models, computational simulations and solutions, experimental measurements, data and uncertainty analysis.

Prerequisite: [PHY131H1](#)/ [PHY151H1](#), [PHY132H1](#)/ [PHY152H1](#), ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)

Corequisite: [PHY231H1](#)/ [PHY250H1](#)/ [PHY252H1](#)/ [PHY254H1](#)/ [PHY256H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY231H1 - Physics of Living Systems

Hours: 24L/18P

An introductory course for students interested in understanding the physical phenomena occurring in biological systems and the applications of physics in life sciences. Topics may include physical processes inside living cells and systems, medical physics and imaging.

Prerequisite: [PHY131H1](#)/ [PHY151H1](#), [PHY132H1](#)/ [PHY152H1](#), ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)

Recommended Preparation: [BIO130H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

ENV237H1 - Physics of the Changing Environment A

Hours: 24L/24P

The course will cover basic physics of environmental processes and of measurement techniques in the atmosphere, the ocean, lake-land-forest systems, and other biological systems. It will place its work in the context of climate change and other aspects of environmental change. This course is solely intended for students who have NOT completed a previous first year physics core course, who are in one of the following programs: Environmental Science Major or Minor, Environmental Geosciences Specialist or Earth and Environmental Systems Major.

Prerequisite: [MAT135H1](#)/ [MAT136H1](#)/ [MAT137Y1](#)/ [MAT157Y1](#)/ [JMB170Y1](#), [CHM136H1](#)/ [CHM138H1](#)/ [CHM135H1](#)/ [CHM139H1](#)/ [CHM151Y1](#)

Exclusion: [ENV238H1](#), [PHY131H1](#)/ [PHY132H1](#)/ [PHY151H1](#)/ [PHY152H1](#)

Recommended Preparation: Any high school physics

Breadth Requirements: The Physical and Mathematical Universes (5)

ENV238H1 - Physics of the Changing Environment B

Hours: 24L/24P

The course will cover basic physics of environmental processes and of measurement techniques in the atmosphere, the ocean, lake-land-forest systems, and other biological systems. It will place its work in the context of climate change and other aspects of environmental change. This course is solely intended for students who have completed a previous first year physics core course, who are in one of the following programs:

Environmental Science Major or Minor, Environmental Geosciences Specialist or Earth and Environmental Systems Major.

Prerequisite: MAT135H1/ MAT136H1/ MAT137Y1/ MAT157Y1/ JMB170Y1, CHM136H1/ CHM138H1/ CHM135H1/ CHM139H1/ CHM151Y1, PHY131H1/ PHY132H1/ PHY151H1/ PHY152H1

Exclusion: ENV237H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY250H1 - Electricity and Magnetism

Hours: 24L/12T

An introductory course in Electromagnetism. Topics include: Point charges, Coulomb's law, electrostatic field and potential, Gauss's Law, conductors, electrostatic energy, magnetostatics, Ampere's Law, Biot-Savart Law, the Lorentz Force Law, Faraday's Law, Maxwell's equations in free space.

Prerequisite: PHY131H1/ PHY151H1, PHY132H1/ PHY152H1, (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Corequisite: MAT235Y1/ MAT237Y1/ MAT257Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY252H1 - Thermal Physics

Hours: 24L/12T

The quantum statistical basis of macroscopic systems; definition of entropy in terms of the number of accessible states of a many particle system leading to simple expressions for absolute temperature, the canonical distribution, and the laws of thermodynamics. Specific effects of quantum statistics at high densities and low temperatures.

Prerequisite: PHY131H1/ PHY151H1, PHY132H1/ PHY152H1, (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Corequisite: MAT235Y1/ MAT237Y1/ MAT257Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY254H1 - Classical Mechanics

Hours: 24L/12T

The course analyzes the linear, nonlinear and chaotic behaviour of classical mechanical systems such as

harmonic oscillators, rotating bodies, and central field systems. The course will develop the analytical and numerical tools to solve such systems and determine their basic properties. The course will include mathematical analysis, numerical exercises using Python, and participatory demonstrations of mechanical systems.

Prerequisite: PHY131H1/ PHY151H1, PHY132H1/ PHY152H1, (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Corequisite: MAT235Y1/ MAT237Y1/ MAT257Y1

Recommended Preparation: MAT244H1/ MAT267H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY256H1 - Introduction to Quantum Physics

Hours: 24L/12T

Failures of classical physics; the Quantum revolution; Stern-Gerlach effect; harmonic oscillator; uncertainty principle; interference packets; scattering and tunneling in one-dimension.

Prerequisite: PHY131H1/ PHY151H1, PHY132H1/ PHY152H1, (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1

Corequisite: MAT235Y1/ MAT237Y1/ MAT257Y1, (MAT223H1/ MAT240H1 recommended)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PHY324H1 - Practical Physics II

Hours: 72P

A modular practical course that further develops the core experimental and computational skills necessary to do physics. Modules include: experimental skills building, computational tools in data and uncertainty analysis, and independent experimental projects.

Prerequisite: PHY224H1, PHY231H1/ PHY250H1/ PHY252H1/ PHY254H1/ PHY256H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY331H1 - Introduction to Biological Physics

Hours: 24L/18P

A course for students interested in a deeper understanding of physical phenomena occurring in biological systems. Thermodynamics, diffusion, entropic forces, fluids, biological applications.

Prerequisite: PHY252H1/ CHM222H1, PHY231H1/ PHY250H1/ PHY254H1/ PHY256H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY350H1 - Electromagnetic Theory

Hours: 24L/12T

This course builds upon the knowledge and tools developed in PHY250H1. Topics include: solving Poisson and Laplace equations via method of images and separation of variables, multipole expansion for electrostatics, atomic dipoles and polarizability, polarization in dielectrics, multipole expansion in magnetostatics, magnetic dipoles, magnetization in matter, Maxwell's equations in matter, conservation laws in electrodynamics, and electromagnetic waves.

Prerequisite: MAT223H1/ MAT240H1, MAT244H1/ MAT267H1, MAT235Y1/ MAT237Y1/ MAT257Y1, PHY250H1

Recommended Preparation: PHY254H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY354H1 - Advanced Classical Mechanics

Hours: 24L/12T

Symmetry and conservation laws, stability and instability, generalized coordinates, Hamilton's principle, Hamilton's equations, phase space, Liouville's theorem, canonical transformations, Poisson brackets, Noether's theorem.

Prerequisite: MAT223H1/ MAT240H1, MAT244H1/ MAT267H1, MAT235Y1/ MAT237Y1/ MAT257Y1, PHY254H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY356H1 - Quantum Mechanics I

Hours: 24L/12T

The general structure of wave mechanics; eigenfunctions and eigenvalues; operators; orbital angular momentum; spherical harmonics; central potential; separation of variables; hydrogen atom; Dirac notation; operator methods; harmonic oscillator and spin.

Prerequisite: MAT223H1/ MAT240H1, MAT235Y1/ MAT237Y1/ MAT257Y1, PHY250H1, PHY256H1/ (CHM222H1, CHM223H1), (PHY256H1 recommended)
Corequisite: MAT244H1/ MAT267H1

Exclusion: CHM326H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY357H1 - Nuclear and Particle Physics

Hours: 24L/12T

The subatomic particles; nuclei, baryons and mesons, quarks, leptons and bosons; the structure of nuclei and hadronic matter; symmetries and conservation laws; fundamental forces and interactions, electromagnetic, weak, and strong; a selection of other topics: CP violation, nuclear models, standard model, proton decay, supergravity, nuclear and particle astrophysics. This course is not a prerequisite for any PHY400-level course.

Prerequisite: PHY356H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY358H1 - Quantum Materials: from Atoms to Crystals

Hours: 24L/12T

This course covers the most important iconic quantum systems, from the hydrogen atom through to solid state systems, focusing on how quantum mechanics is applied and determines physical properties of atoms, molecules, and crystals. It begins with the hydrogen atom, including orbital and spin angular momentum, spin-orbit coupling, and effects of the magnetic field, and then extends to systems of two identical particles: bosons vs. fermions and the helium atom with two electrons. Other topics include spin singlets and triplets, entanglement, perturbation theory, the effects of electron-electron interactions and diatomic molecules. For crystals, the course covers Fermi gases, Fermi surfaces, crystal structure, the reciprocal lattice, the nearly-free electron

model, energy bands, and topology using low-dimensional models.

Prerequisite: PHY356H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY365H1 - Quantum Information

Hours: 24L/12T

Introduction to quantum computing; Quantum states of multi-particle systems and Entanglement; Quantum Algorithms; Quantum Information Processing Technologies; Quantum error correction.

Prerequisite: PHY256H1/ PHY294H1/ CHM223H1/ ECE330H1, MAT223H1/ MAT240H1 (Students who do not meet these prerequisites are encouraged to contact the Department.)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY371Y1 - Supervised Study in Physics

An individual study program chosen by the student with the advice of, and under the direction of, a staff member. A student may take advantage of this course either to specialize further in a field of interest or to explore interdisciplinary fields not available in the regular syllabus. Consult the department web pages for some possible topics. This course may also be available in the summer. Not eligible for CR/NCR option.

Prerequisite: Consult the Physics Associate Chair (Undergraduate Studies)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY372H1 - Supervised Study in Physics

An individual study program chosen by the student with the advice of, and under the direction of, a staff member. A student may take advantage of this course either to specialize further in a field of interest or to explore interdisciplinary fields not available in the regular syllabus. Consult the department web site for some possible topics. This course may also be available in the summer. Not eligible for CR/NCR option.

Prerequisite: Consult the Physics Associate Chair (Undergraduate Studies)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY378H1 - Undergraduate Research Project

An individual experimental or theoretical research project undertaken with the advice of, and under the direction of, a staff member. A student may take advantage of this course either to specialize further in a field of interest or to explore independent research. Consult the department web site for some possible topics. This course may also be available in the summer. Not eligible for CR/NCR option.

Prerequisite: Consult the Physics Associate Chair (Undergraduate Studies)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY379Y1 - Undergraduate Research Project

An individual experimental or theoretical research project undertaken with the advice of, and under the direction of, a staff member. A student may take advantage of this course either to specialize further in a field of interest or to explore independent research. Consult the department web site for some possible topics. This course may also be available in the summer. Not eligible for CR/NCR option.

Prerequisite: Consult the Physics Associate Chair (Undergraduate Studies)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY385H1 - Introductory Optics

Hours: 24L/20P

An introduction to the physics of light. Topics covered include: electromagnetic waves and propagation of light; the Huygens and Fermat principles; geometrical optics and optical instruments; interference of waves and diffraction; polarization; introduction to photons, lasers, and optical fibers.

Prerequisite: PHY250H1, PHY224H1, MAT235Y1/ MAT237Y1/ MAT257Y1

Exclusion: ECE318H1

Recommended Preparation: PHY254H1, PHY350H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY392H1 - Physics of Climate

Hours: 24L

This course provides an introduction to climate physics and the earth-atmosphere-ocean system. Topics include solar and terrestrial radiation; global energy balance; radiation laws; radiative transfer; atmospheric structure; convection; the meridional structure of the atmosphere; the general circulation of the atmosphere; the ocean and its circulation; and climate variability.

Prerequisite: PHY250H1/ PHY252H1, MAT235Y1/ MAT237Y1/ MAT257Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

JPE395H1 - Physics of the Earth

Hours: 24L

Designed for students interested in the physics of the Earth and the planets. Study of the Earth as a unified dynamic system; determination of major internal divisions in the planet; development and evolution of the Earth's large scale surface features through plate tectonics; the age and thermal history of the planet; Earth's gravitational field and the concept of isostasy; mantle rheology and convection; Earth tides; geodetic measurement techniques, in particular modern space-based techniques.

Prerequisite: PHY132H1/ PHY152H1/ PHY180H1/ MIE100H1, MAT235Y1/ MAT237Y1/ MAT291H1/ AER210H1, PHY254H1/ PHY293H1/ MAT244H1/ MAT267H1/ MAT290H1/ MAT292H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY396Y0 - Research Topic Abroad

Course credit for research or field studies abroad under the supervision of a faculty member. Not eligible for CR/NCR option.

Prerequisite: A minimum of 8.5 credits and no more than 14.0 credits completed

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY397Y0 - Exchange Research Project Abroad

Course credit for research or field studies abroad under the supervision of a faculty or staff member from an exchange institution. Consult the Physics Department web

pages for information about opportunities. Not eligible for CR/NCR option.

Prerequisite: Consult the Physics Associate Chair (Undergraduate Studies)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

PHY398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

PHY399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PHY405H1 - Electronics Lab

Hours: 12L/36P

Electrical circuits, networks and devices are all-pervasive in the modern world. This laboratory course is an introduction to the world of electronics. Students will learn the joys and perils of electronics, by designing, constructing and debugging circuits and devices. The course will cover topics ranging from filters and operational amplifiers to micro-controllers, and will introduce students to concepts such as impedance, transfer functions, feedback and noise.

Prerequisite: PHY224H1, PHY250H1. Note that PHY405H1 may be taken in third or fourth year.

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY407H1 - Computational Physics

Hours: 12L/36P

This is an introduction to scientific computing in physics. Students will be introduced to computational techniques used in a range of physics research areas. By considering select physics topics, students will learn basic computational methods for function analysis (computing integrals and derivatives; finding roots and extrema), resolution of linear and non-linear equations, eigenvalue problems, Fourier analysis, ODEs, PDEs and Monte Carlo techniques. As the course progresses, students will develop their skills at debugging, solution visualization, computational efficiency and accuracy. The course is based on python and will involve working on a set of computational labs throughout the semester as well as a final project.

Prerequisite: PHY224H1, PHY250H1/ PHY252H1/ PHY254H1/ PHY256H1, MAT235Y1/ MAT237Y1/ MAT257Y1

Corequisite: Any 300/ 400-level lecture course in Physics (PHY/ JPE)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY408H1 - Time Series Analysis

Hours: 12L/24P

The analysis of digital sequences; filters; the Fourier Transform; windows; truncation effects; aliasing; auto and cross-correlation; stochastic processes, power spectra; least squares filtering; application to real data series and experimental design.

Prerequisite: PHY224H1, PHY250H1/ PHY252H1/ PHY254H1/ PHY256H1, MAT235Y1/ MAT237Y1/ MAT257Y1.

Corequisite: Any 300/ 400-level lecture course in Physics (PHY/ JPE)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY424H1 - Advanced Physics Laboratory

Hours: 72P

Experiments in this course are designed to form a bridge to current experimental research. A wide range of exciting

experiments relevant to modern research in physics is available. The laboratory is normally open from 9 a.m. - 4 p.m., Monday to Friday.

Prerequisite: PHY250H1, PHY256H1, PHY324H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY426H1 - Advanced Practical Physics I

Hours: 72P

This course is a continuation of PHY424H1, but students have more freedom to progressively focus on specific areas of physics, do extended experiments, projects, or computational modules.

Prerequisite: PHY424H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY428H1 - Advanced Practical Physics II

Hours: 72P

This course is a continuation of PHY426H1, but students have more freedom to progressively focus on specific areas of physics, do extended experiments, projects, or computational modules.

Prerequisite: PHY426H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY429H1 - Advanced Practical Physics III

Hours: 72P

This course is a continuation of PHY428H1, but students have more freedom to progressively focus on specific areas of physics, do extended experiments, projects, or computational modules.

Prerequisite: PHY428H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY431H1 - Topics in Biological Physics

Hours: 24L/12T

An introduction to the physical phenomena involved in the biological processes of living cells and complex systems. Models based on physical principles applied to cellular processes will be developed. Biological computational modeling will be introduced.

Prerequisite: PHY250H1, PHY252H1/ CHM222H1, PHY331H1

Breadth Requirements: The Physical and Mathematical Universes (5)

JPH441H1 - Physical Science in Contemporary Society

Hours: 24L

This course will discuss the complex, real-life, ethical, and philosophical issues behind how science gets done, including questions such as how we as scientists strive to determine the truth; who determines what science is done, and on what basis; how we as a community manage science and make decisions about education, authorship, publication, hiring, et cetera (including issues related to equity, inclusivity, and diversity); and how we as a society fund science and apply its discoveries.

Prerequisite: PHY224H1/ PHY250H1/ PHY252H1/ PHY254H1/ PHY256H1, or by permission of the instructor.

Breadth Requirements: Society and its Institutions (3)

PHY450H1 - Relativistic Electrodynamics

Hours: 24L/12T

An introduction to relativistic electrodynamics. Topics include: special relativity, four-vectors and tensors, relativistic dynamics from the Principle of Stationary Action and Maxwell's equations in Lorentz covariant form. Noether's theorem for fields and the energy-momentum tensor. Fields of moving charges and electromagnetic radiation: retarded potential, Lienard-Wiechert potentials, multipole expansion, radiation reaction.

Prerequisite: PHY350H1, PHY354H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY452H1 - Statistical Mechanics

Hours: 24L/12T

Classical and quantum statistical mechanics of noninteracting systems; the statistical basis of thermodynamics; ensembles, partition function; thermodynamic equilibrium; stability and fluctuations; formulation of quantum statistics; theory of simple gases; ideal Bose and Fermi systems.

Prerequisite: PHY252H1, PHY356H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY454H1 - Continuum Mechanics

Hours: 24L/12T

The theory of continuous matter, including solid and fluid mechanics. Topics include the continuum approximation, dimensional analysis, stress, strain, the Euler and Navier-Stokes equations, vorticity, waves, instabilities, convection and turbulence.

Prerequisite: PHY254H1, MAT235Y1/ MAT237Y1/ MAT257Y1, APM346H1/ APM351Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY456H1 - Quantum Mechanics II

Hours: 24L/12T

Quantum dynamics in Heisenberg and Schrödinger pictures; WKB approximation; variational method; time-independent perturbation theory; spin; addition of angular momentum; time-dependent perturbation theory; scattering.

Prerequisite: PHY356H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY460H1 - Nonlinear Physics

Hours: 24L/12T

The theory of nonlinear dynamical systems with applications to many areas of physics. Topics include stability, bifurcations, chaos, universality, maps, strange attractors and fractals. Geometric, analytical and computational methods will be developed.

Prerequisite: PHY354H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY471Y1 - Supervised Study in Physics

An individual study program chosen by the student with the advice of, and under the direction of, a staff member. A student may take advantage of this course either to specialize further in a field of interest or to explore interdisciplinary fields not available in the regular syllabus. Consult the department web pages for some possible topics. This course may also be available in the summer. Not eligible for CR/NCR option.

Prerequisite: Consult the Physics Associate Chair (Undergraduate Studies).

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY472H1 - Supervised Study in Physics

An individual study program chosen by the student with the advice of, and under the direction of, a staff member. A student may take advantage of this course either to specialize further in a field of interest or to explore interdisciplinary fields not available in the regular syllabus. Consult the department web pages for some possible topics. This course may also be available in the summer. Not eligible for CR/NCR option.

Prerequisite: Consult the Physics Associate Chair (Undergraduate Studies).

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY478H1 - Undergraduate Research Project

An individual experimental or theoretical research project undertaken with the advice of, and under the direction of, a staff member. A student may take advantage of this course either to specialize further in a field of interest or to explore independent research. Consult the department web site for some possible topics. This course may also be available in the summer. Not eligible for CR/NCR option.

Prerequisite: Consult the Physics Associate Chair (Undergraduate Studies)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY479Y1 - Undergraduate Research Project

An individual experimental or theoretical research project undertaken with the advice of, and under the direction of, a faculty member. A student may take advantage of this course either to specialize further in a field of interest or to explore independent research. Consult the department web site for possible topics. This course may also be available in the summer. Not eligible for CR/NCR option.

Prerequisite: Consult the Physics Associate Chair (Undergraduate Studies)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY483H1 - Relativity Theory I

Hours: 24L/12T

Basis of Einstein's theory: differential geometry, tensor analysis, gravitational physics leading to General Relativity. Theory starting from solutions of Schwarzschild, Kerr, etc.

Prerequisite: PHY354H1

Recommended Preparation: PHY350H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY484H1 - Relativity Theory II

Hours: 24L/12T

Applications of General Relativity to Astrophysics and Cosmology. Introduction to black holes, large-scale structure of the universe.

Prerequisite: PHY483H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY485H1 - Laser Physics

Hours: 24L

This course covers a broad range of advanced topics in classical optics, with the laser as a unifying theme. Topics include atom-photon interactions (absorption, radiation, and stimulated emission), how a laser works (gain, pumping, rate equation models, threshold, and gain clamping), optical resonators (their spectrum, finesse, stability, and transverse modes), propagation of Gaussian beams and paraxial rays, and the statistics of optical fields

(spatial and temporal coherence). Time permitting, pulse propagation and pulsed lasers will be discussed.

Prerequisite: [PHY350H1](#), [PHY356H1](#), [PHY385H1](#)/[ECE318H1](#)

Recommended Preparation: [PHY358H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY487H1 - Condensed Matter Physics

Hours: 24L

Introduction to foundational concepts of condensed matter physics in the solid state. Main topics to be covered: crystal structure, reciprocal lattice, x-ray diffraction, crystal binding, lattice vibrations, phonons and electrons in solids, Fermi surfaces, energy bands, semiconductors and magnetism. Special topics to be surveyed: superconductivity and nanoelectronic transport.

Prerequisite: [PHY250H1](#), [PHY252H1](#), [PHY356H1](#)

Recommended Preparation: [PHY254H1](#), [PHY358H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY489H1 - Introduction to High Energy Physics

Hours: 24L

This course introduces the basics of fundamental particles and the strong, weak and electromagnetic forces that govern their interactions in the Standard Model of particle physics. Topics include relativistic kinematics, conservation laws, particle decays and scattering processes, with an emphasis on the techniques used for calculating experimental observables.

Prerequisite: [PHY356H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY491H1 - Current Interpretations of Quantum Mechanics

Hours: 24L/24T

Different interpretations of quantum mechanics are presented and discussed, comparing and contrasting the various approaches to understanding the formalism of the theory. We begin with "textbook quantum mechanics" and then discuss the Copenhagen view, operationalist quantum mechanics, hidden variable theories, Bohm-de Broglie theory, consistent histories, relational quantum

mechanics, relative state approaches (many minds and many worlds), QBism, the interactional interpretation, and collapse theories.

Prerequisite: [PHY456H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

PHY492H1 - Advanced Atmospheric Physics

Hours: 24L/12T

A preparatory course for research in experimental and theoretical atmospheric physics. Content will vary from year to year. Themes may include techniques for remote sensing of the Earth's atmosphere and surface; theoretical atmosphere-ocean dynamics; the physics of clouds, precipitation, and convection in the Earth's atmosphere.

Prerequisite: [PHY224H1](#), [PHY250H1](#)/[PHY252H1](#)/[PHY254H1](#), [MAT235Y1](#)/[MAT237Y1](#)/[MAT257Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

JPE493H1 - Seismology

Hours: 24L

Why do earthquakes occur and how are they related to tectonic motion of the Earth's surface? What is the physics behind the propagation of seismic waves through the Earth, and how can it be used to determine the internal structures of the Earth? This introductory course is aimed at understanding the physics behind seismic wave propagation, as well as asymptotic and numerical solutions to the elastodynamic equation. Travel time and amplitude of seismic waves are discussed based on seismic ray theory, while numerical methods are introduced to obtain accurate solutions to more complex velocity structures. Seismic tomographic methods, including their applications to hydrocarbon reservoir imaging, are also covered.

Prerequisite: [JPE395H1](#)/[JGA305H1](#)

Corequisite: [APM346H1](#)/[MAT351Y1](#)

Recommended Preparation: [ESS245H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

Physiology

Faculty List

Professors Emeriti

U. Ackermann, PhD
 H.L. Atwood, PhD, DSc, FRSC
 P. Backx, PhD
 P.L. Brubaker, PhD
 A. Buchan, PhD
 J.R.G. Challis, PhD, DSc, FIBiol, FRCOG, FRSC
 M.P. Charlton, PhD
 J. Dostrovsky, PhD
 P.E. Hallett, MD
 A.A. Horner, PhD
 H. Kwan, PhD
 D.R. McLachlan, MD, FRCP(C)
 K. Norwich, MD, PhD
 M. Percy, PhD
 C. Perumalla, PhD
 M. Radomski, PhD
 L. Schlichter, PhD
 H. Sonnenberg, PhD
 E. Stanley, PhD
 A.M-F. Sun, PhD
 V. Watt, PhD
 J.M. Wojtowicz, PhD

Associate Professor and Chair of the Department

S. Heximer, PhD

Professors

K. Adeli, PhD, FCACB, DABCC, FACB
 G.H. Anderson, PhD
 D. Bagli, MDCM, FRCSC, FAAP, FACS
 M. Balki, MD
 C. Barr, PhD
 C.E. Bear, PhD
 J. Belik, MD, FRCP(C)
 D. Belsham, PhD
 S.-S. Bolz, MD, PhD
 T.J. Brown, PhD
 I. Caniggia, MD, PhD
 P.L. Carlen, MD, FRCP(C)
 D. Cherney, MD, PhD, FRCPC
 G.L. Collingridge, FRS, FMedSci, FSB, FBPhS
 J. Eubanks, PhD
 Z.P. Feng, MD, PhD
 J. Fisher, MD, FRCP(C)
 M. Friedberg, MD
 H.Y. Gaisano, MD
 A. Giacca, MD
 A. Gramolini, PhD
 G. Hare, MD, PhD, FRCP(C)
 S. Hill, PhD
 R. Horner, PhD

M. Husain, MD, FRCP(C)
 W. Hutchison, PhD
 Z. Jia, PhD
 T. Jin, MD, PhD
 N. Jones, MD, PhD, FRCP(C)
 J. Kingdom, MD, FRCSC, MRCP, FRCOG
 A. Klip, PhD
 W.M. Kuebler, MD
 T.K.T. Lam, PhD
 R. Levitan, MD, FRCPC, MSc
 G. Lewis, MBBCH, FRCP(C)
 R.K. Li, MD, PhD, FCAHS
 F. Liu, PhD
 M. Liu, MD, MSc
 S.J. Lye, BSc, PhD
 S. G. Matthews, PhD
 C.D. Mazer, MD, FRCP(C)
 A. McGahan, PhD
 J. Morrison, PhD
 H. Ni, MD, PhD
 B. Orser, MD, PhD
 M. Palmert, MD, PhD
 Z. Pausova, MD
 J. Peever, PhD
 A. Pierro, OBE, MD, FRCS(Eng.), FRCS(Ed), FAAP
 M. Post, DVM, PhD
 S. Prescott, MD, PhD
 N.D. Rosenblum, MD
 M.W. Salter, MD, PhD, FRSC
 J.W. Scholey, MD, FRCP(C)
 B.J. Sessle, MDS, PhD
 F. Skinner, MA, Sc, PhD
 S. Sugita, MA, PhD
 H.S. Sun, MD, PhD
 S. Thomas, PhD
 D. Tweed, PhD
 M. Tymianski, MD, PhD, FRCS(C)
 L.-Y. Wang, PhD
 M. Wheeler, PhD
 C. Wittnich, DVM, MSc
 H. Zhang, MD, PhD
 M. Zhen, PhD
 M. Zhuo, PhD

Associate Professors

E. Bloise, PhD, DVM
 V. S. Chauhan, MD, FRCPC
 K. Connelly, PhD, MBBS, FRACP
 B. Cox, PhD
 A. Dimitrijevic, PhD
 C. Dos Santos, MD, FRCPC
 P. Frankland, PhD
 J. Gillis, PhD
 M. Gollob, MD, FRCPC
 S. Josselyn, PhD
 A. Jurisicova, PhD
 D. Kadis, PhD
 E.K. Lambe, PhD
 C. Librach, MD, FRCS(C)
 J. Min, PhD
 P.P. Monnier, PhD, MBA

D. Ng, PhD, MD, FRCP(C)
 C. Nostro, PhD
 C. O'Brien, MD, PhD
 I. Rogers, PhD
 M. Seed, MBBS, MRCPH, FRCR
 O. Shynlova, PhD
 P. Subbarao, MD
 N. Sweezey, MD
 A. Wheeler, PhD

Assistant Professors

F. Billia, MD, PhD
 M. De Pitta, PhD
 N. Goldenberg, MD, PhD
 E. Goligher, MD, PhD, FRCPC
 E. Hay, PhD
 Z. Ivakine, PhD
 M. Lankarany, PhD
 T. MacDonald, PhD
 P. McGowan, PhD
 N. McKinnon, MD, PhD
 K. Prentice, PhD
 A. Ramsey, PhD
 J.V. Rocheleau, PhD
 B. Steinberg, MD, PhD, FRCPC
 I. Taxis, PhD
 S. Tripathy, PhD
 R. Vanderlaan, MD, PhD, FRCSC
 A. Velumian, PhD

Professor, Teaching Stream

M. French, PhD

Associate Professor, Teaching Stream

N. Kee, PhD

Assistant Professor, Teaching Stream

J. Kroetsch, PhD
 S. Pereira, PhD

Introduction

Physiology is the study of living matter in action. It integrates physical and life science disciplines in order to understand body functions and the origins of disease. Beyond the study of control mechanisms, compensations, and cooperation among body molecules, cells, tissues and organs, the interaction between the body's external and internal environments is a key theme in Physiology. Most importantly, Physiology unifies the life sciences from molecule to organism, providing the link from genomics and molecular signaling pathways to behaviour and disease. Emerging fields for physiologists are the analysis of the functional implications of genomic sequence variation, developmental factors leading to chronic illness, and novel approaches for regenerative medicine.

Biological function -- of molecules, cells, and organs -- is at the heart of Physiology, and this knowledge is fundamental to the life sciences in general. Accordingly,

Physiology provides an excellent and often necessary background for subsequent training in Medicine, Dentistry, Pharmacy, Nursing, Physical or Occupational Therapy, and other health-related professions. It is also excellent preparation for graduate work in Physiology and related areas; or for the teaching of Biological Science in secondary schools. Physiologists are needed in hospitals and departments of medicine as teachers and research personnel. Other outlets would be in agriculture and veterinary medicine, in military research establishments and in life science-based industry. The development of air and space travel, the exploration of the continental shelf, the development of Northern regions, and increased emphasis on exercise and fitness, all provide business and research opportunities for the person trained in Physiology.

Physiology at the research level covers a variety of specialties (e.g., Endocrinology, Cardiovascular Physiology, Neurophysiology, Respiratory Physiology, Reproductive Physiology, Sensory Physiology), each with a wide variety of technical and analytical methods. More information is available on the departmental website (www.physiology.utoronto.ca).

Undergraduate Assistant: Jay Bhat, Medical Sciences Building, Room 3368, physiology.undergrad@utoronto.ca, (416-978-5077)

Physiology Programs

Physiology Specialist (Science Program) - ASSPE0482

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO120H1 and BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- 1.0 credit from MAT135H1, MAT136H1, MAT137Y1, MAT157Y1, PHY131H1, PHY132H1, PHY151H1, PHY152H1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60% in each course, or a grade average lower than 70% in these required courses will not be considered for admission.

Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at physiology.undergrad@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment, or the Physiology website at www.physiology.utoronto.ca.

Completion Requirements:

(14 credits)

First Year:

BIO120H1, BIO130H1; (CHM135H1, CHM136H1)/ CHM151Y1; (PHY131H1, PHY132H1)/(PHY151H1, PHY152H1)

First Year or Upper Years:

(MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1*

Second Year:

1. 2.5 credits from BCH210H1; BIO230H1/ BIO255H1; CHM220H1/ CHM247H1/ CHM249H1; PSL300H1, PSL301H1

2. 1.5 credits from BIO220H1, BIO260H1/ HMB265H1; MAT235Y1, PHY231H1, PSL299Y1/ PSL399Y1, STA220H1/ STA250H1

Third Year:

1. 3 credits from BCH370H1; PSL304H1, PSL305H1, PSL350H1/ CSB349H1/ BCH311H1, PSL372H1, PSL374H1

2. 1 credit from the following list: ANA300Y1, ANA301H1; BME498Y1; CSB325H1, CSB332H1/ CJH332H1, CSB343H1, CSB345H1/ CSB445H1, CSB346H1, CSB347H1; IMM340H1/ IMM341H1, IMM350H1/ IMM351H1; JPM300H1; PCL201H1, PCL285H1, PCL302H1; PHY331H1, PSL310H1; PSL378H1/ PSL379H0/ PSL398H0; PSY397H1

Fourth Year: (at least 2 credits at 400-level)

1. PSL496Y1/ PSL497H1/ PSL498Y1/ PSL499H1/ JPM400Y1

2. 1-1.5 credits from PSL400-series or HMB430H1/ HMB470H1/ HMB472H1

* These courses may be taken in the first year or

subsequent years, and are not required for entrance into the specialist program.

Physiology Major (Science Program) - ASMAJ0482

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses or their equivalents must be completed:

- BIO120H1 and BIO130H1
- (CHM135H1 and CHM136H1)/ CHM151Y1
- 1.0 credit from MAT135H1, MAT136H1, MAT137Y1, MAT157Y1, PHY131H1, PHY132H1, PHY151H1, PHY152H1

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 60% in each course, or a grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program. The underlying numeric final mark in each of your courses required for program enrolment will be used by the relevant academic unit to determine your eligibility.

Applications from students lacking numerical grades in one or more of the specified prerequisites, or students applying in their second or later years, may be considered on the basis of their entire academic record and the availability of space in the program. In addition to applying through ACORN, students applying in their second year or later are asked to please contact the department directly at physiology.undergrad@utoronto.ca, specify which program you would like to be considered for, and provide your student number.

Please consult the [Arts & Science Program Toolkit](#) for more information on program enrolment.

Completion Requirements:

(8 credits, including 0.5 credits at the 400-level)

First Year:

1. 2 credits from (BIO120H1, BIO130H1)/BIO150Y; (CHM135H1, CHM136H1)/ CHM151Y1

2. 1 credit from any of the following: MAT135H1, MAT136H1, MAT137Y1, MAT157Y1, PHY131H1, PHY132H1, PHY151H1, PHY152H1

Second Year:

2 credits from BCH210H1; BIO230H1/ BIO255H1;
PSL300H1, PSL301H1

Higher Years:

1. 1 credit from PSL372H1, PSL350H1/ BCH311H1/
CSB349H1
2. 1 credit from ANA300Y1, ANA301H1; CSB325H1,
CSB330H1, CSB332H/ CJH332H1, CSB343H1,
CSB345H1/ CSB445H1, CSB346H1, CSB347H1;
IMM340H1/ IMM341H1, IMM350H1/ IMM351H1;
JPM300H1; NFS284H1; PCL201H1, PCL285H,
PCL302H1; PSY201H1; PSY397H1; STA220H1
3. 1 credit from HMB430H1/ HMB470H1/ HMB472H1;
JPM400Y1; PSL304H1, PSL305H1, PSL310H1,
PSL374H1, PSL378H1/ PSL379H1/ PSL379H0/
PSL398H0, PSL399Y1, PSL400-series courses

Physiology Minor (Science Program) - ASMIN0482

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Physiology Courses

PSL190H1 - Biomedical Research at the Cutting Edge

Hours: 24L/6S

Explore the thought processes, logic, motivation, techniques, analysis and impact of recent high-profile publications to gain insight into the enterprise of science. Outstanding scientists present recent high-impact papers, and students will examine the research in depth, focusing on the underlying questions, experimental approach, results and significance. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: SBI4U and SCH4U (Grade 12 University Preparation Biology and Chemistry); permission of Department

Breadth Requirements: Living Things and Their Environment (4)

PSL201Y1 - Basic Human Physiology

Hours: 44L/24P

A survey course covering all organ systems intended for students who are not proceeding further in Physiology.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300+ level)

1. 2.0 credits from: (BIO120H1, BIO130H1); PSL201Y1/(
PSL300H1, PSL301H1)
2. 2.0 credits from: BIO251H1, BIO270H1, BIO271H1;
CSB325H1, CSB332H/ CJH332H1, CSB343H1,
CSB344H, CSB345H1/ CSB445H1, CSB346H1,
CSB347H; EEB328H1; HMB200H1/HMB220H,
HMB430H1, HMB470H1, HMB472H1; PSL280H1,
PSL299Y1, PSL300-series (excluding PSL300H1,
PSL301H1), PSL400-series; PSY290H1, PSY396H1,
PSY397H1, PSY369H1/PSY399H, PSY490H1,
PSY492H1, PSY494H1, PSY497H1

Biological Physics: see Physics

Exclusion: Any 300-level PSL course taken previously or concurrently

Recommended Preparation: 100-level course in BIO or equivalent

Breadth Requirements: Living Things and Their Environment (4)

PSL280H1 - Introduction to Physiologic Adaptations of Marine Mammals

Hours: 24L/14P

Systems approach to physiology of marine mammals in their aquatic environment. Highlights unique features of cardiovascular, respiratory, renal, urinary, and reproductive systems. Introduces relevant physiology, and makes comparisons to human condition and disease.

Prerequisite: (BIO120H1, BIO130H1), CHM136H1/
CHM151Y1. Students who do not have all of the required prerequisites are encouraged to contact the course coordinator to seek a waiver.

Breadth Requirements: Living Things and Their Environment (4)

PSL299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

JPM300H1 - Research Readiness and Advancing Biomedical Discoveries

Hours: 12L/24T

Explore how scientists leverage their knowledge and skills to advance academic biomedical discoveries from the laboratory to improve patient health through either commercialization or not-for-profit approaches. Students will learn about innovation and develop key research and industry skills including intellectual property, ethics, budget and project management; learn how to critically evaluate scientific evidence and effectively communicate to a wide audience. This hybrid student-centered course will include interactive online modules and in-class group work. Course work will focus on developing skills and knowledge to help you be successful in diverse research courses and future careers. Not eligible for CR/NCR option.

Prerequisite: Completion of 10.0 credits, BCH210H1/BCH242Y1

Recommended Preparation: PSL300H1, PSL301H1

Breadth Requirements: Living Things and Their Environment (4)

PSL300H1 - Human Physiology I

Hours: 36L/5T

Principles of neurophysiology, endocrinology and reproductive physiology for students enrolled in Life Science programs.

Exclusion: PSL201Y1, PSL302Y1

Recommended Preparation: BIO130H1; CHM136H1/CHM151Y1; and 1.0 credit from any of the following: MAT135H1, MAT136H1, MAT137Y1, MAT157Y1, PHY131H1, PHY132H1, PHY151H1, PHY152H1

Breadth Requirements: Living Things and Their Environment (4)

PSL301H1 - Human Physiology II

Hours: 36L/4T

Principles of respiratory, cardiovascular, gastrointestinal, and renal physiology for students enrolled in Life Science programs.

Exclusion: PSL201Y1, PSL302Y1

Recommended Preparation: BIO130H1; CHM136H1/CHM151Y1; and 1.0 credit from any of the following: MAT135H1, MAT136H1, MAT137Y1, MAT157Y1, PHY131H1, PHY132H1, PHY151H1, PHY152H1

Breadth Requirements: Living Things and Their Environment (4)

PSL304H1 - Topics in Cellular, Molecular and Organismic Physiology I

Hours: 32L/16T

Control systems, feedback, networks, and both neonatal and adult cardiovascular and respiratory control are the topics examined in detail using homeostasis as a unifying theme. Tutorials involve computer simulations, case studies and/or experimental design. This course is designed for students in the Physiology Specialist and Biological Physics Specialist Programs, although permission is granted to students in other programs upon approval by the Department.

Prerequisite: BCH210H1, PSL300H1, PSL301H1, MAT100-series

Exclusion: PSL303Y1

Recommended Preparation: PSL372H1

Breadth Requirements: Living Things and Their Environment (4)

PSL305H1 - Topics in Cellular, Molecular and Organismic Physiology II

Hours: 32L/16T

Focus on two topics: the brain and pregnancy. Delve into the physiology of the central nervous system along with associated diseases as model systems. Learn about fetal and maternal adaptations during pregnancy and the consequences of maladaptation. The course is designed for Physiology Specialist students, although permission is granted to other students upon Departmental approval.

Prerequisite: BCH210H1, PSL300H1, PSL301H1, MAT100-series

Exclusion: PSL303Y1

Recommended Preparation: PSL372H1

Breadth Requirements: Living Things and Their Environment (4)

PSL310H1 - Clinical Reasoning

Hours: 24L/12S

Improved clinical reasoning will reduce the current likelihood that most people will suffer at least one medical diagnostic error, errors that contribute to ~10% of patient deaths. Learn to apply strategies of critical thinking and principles of physiology to solve clinical cases. Shadow a healthcare professional. Not eligible for CR/NCR option.

Prerequisite: BCH210H1, BIO230H1/ BIO255H1, PSL300H1, PSL372H1, PSL301H1

Corequisite: PSL301H1

Exclusion: HMB322H1

Breadth Requirements: Living Things and Their Environment (4)

PSL350H1 - Mammalian Molecular Biology

Hours: 18L/12T/6S

Extend molecular biology concepts to current scientific literature in mammalian physiology. Apply these principles to disease and complex behaviours. Discuss bioethical issues raised by these techniques and their application. Benefit from three weeks in small group seminars lead by research professors focusing on current advances in mammalian molecular biology.

Prerequisite: BIO230H1/ BIO255H1, PSL300H1, BCH210H1

Corequisite: PSL301H1

Exclusion: BCH311H1/ BIO349H1/ CSB349H1/ MGY311Y1

Breadth Requirements: Living Things and Their Environment (4)

PSL372H1 - Mammalian Physiology Laboratory

Hours: 12L/36P

A laboratory course covering selected topics in physiology. An ancillary fee of \$50 will be charged for lab materials.

Prerequisite: BIO230H1/(BIO240H1, BIO241H1)/ BIO255H1, BCH210H1/ BCH242Y1, MAT100-series/PHY100-series, PSL300H1, PSL301H1

Corequisite: BCH370H1 (recommended)

Exclusion: CSB348H1

Breadth Requirements: Living Things and Their Environment (4)

PSL374H1 - Advanced Physiology Laboratory

Hours: 12L/36P/12S

A problem-based laboratory course focused on the integration and control of organ systems to understand body functions. Enrollment in this course is restricted to students in the Physiology Specialist and Major Programs although permission is granted to students in other programs upon approval by the Department. An ancillary fee of \$50 will be charged for lab materials.

Prerequisite: BIO230H1/(BIO240H1, BIO241H1)/ BIO255H1, PSL300H1, PSL301H1, PSL372H1

Exclusion: CSB348H1

Breadth Requirements: Living Things and Their Environment (4)

PSL378H1 - Field Physiology: Marine Mammal Autopsy

Hours: 12L/24T/36P

An opportunity to go outside of the traditional university classroom and actively participate in a marine mammal autopsy. Learn the diversity and adaptive nature of marine mammalian physiology/anatomy as it compares to human. The course is 2 weeks (in May), one week of hands-on tissue dissection, and one week of group discussions of the findings and draft report preparation. Not eligible for CR/NCR option.

An additional fee is required to help cover the cost of delivery for this course. Please see <https://physiology.utoronto.ca/psl378h1f> for details.

Prerequisite: BIO270H1, BIO271H1/ PSL201Y1/ PSL280H1/ PSL300H1, PSL301H1 or permission of the course coordinator

Breadth Requirements: Living Things and Their Environment (4)

PSL379H0 - Comparative Marine Mammal Physiology in the Field

Hours: 24T/36P

Hands-on monitoring of physiological measures with live dolphins, manatee and sea lions; field observations and

applied learning to a physiology project. Two-weeks at the end of April early May: 1st week is spent at the marine research center in Mexico, 2nd week of wrap-up discussion and integration of data at U of T. Not eligible for CR/NCR option.

An additional fee is required to help cover the cost of delivery for the course.
See <https://physiology.utoronto.ca/psl379h> for details.

Prerequisite: BIO220H1/ BIO230H1/ BIO270H1/ BIO271H1/ CSB343H1/ PSL280H1/ PSL201Y1/ PSL300H1/ PSL301H1/ PSY362H1/any other relevant course

Breadth Requirements: Living Things and Their Environment (4)

PSL398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

PSL399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

JPM400Y1 - Biomedical Incubator Capstone Project

Hours: 240P/16S

Discover what it is like to be part of a biomedical innovation team. Develop and engage in biomedical research in a simulated small business/incubator setting under the guidance of a faculty mentor. Bring your proposed JPM300H1 project to life, while acquiring budget management, research, business and communication workplace skills for future careers. Enrolment is application-based. Application requirements and process are presented as part of the JPM300H1 course. Proposals will be reviewed by committee and successful proposals will be matched to a mentor. Not eligible for CR/NCR option.

Application required; contact department (undergrad.pharmtox@utoronto.ca) for more information.

Students will form teams and develop a research proposal based on either:

- 1. Faculty led concept requiring further development and testing, which would not normally be funded grants and would be tangential to ongoing research in the lab.*
- 2. Student developed innovative idea that requires further development and testing. This should be a project that is not being investigated in a UofT research lab.*

Prerequisite: A minimum of 75% in JPM300H1; completion of any of PCL367H1/ PCL368H1/ PSL372H1/ BCH370H1/ BCH377H1 or Permission of the Department.
Breadth Requirements: Living Things and Their Environment (4)

PSL404H1 - Regenerative Medicine

Hours: 24L/12T

Regenerative medicine promises to restore body function that has been lost due to disease, damage or age. Students will explore selected molecular, stem cell and tissue engineering developments to better understand how the body normally functions and how cells, tissues, and organs can be repaired or replaced.

Prerequisite: PSL300H1, PSL301H1
Recommended Preparation: PSL350H1/ BCH311H1/ CSB349H1/ MGY311Y1
Breadth Requirements: Living Things and Their Environment (4)

PSL420H1 - Reproduction: Development and Function

Hours: 24L

This course provides an in-depth review of the development and function of the male and female reproductive systems. Topics include sex determination and differentiation, steroidogenesis, gametogenesis, hormonal control of the reproductive axis, the female ovulatory cycle, fertilization and implantation, infertility and assisted reproduction approaches.

Joint undergraduate/graduate course - PSL420H1/LMP2100H

Prerequisite: A minimum grade of 78% is required in PSL300H1 and PSL301H1. If minimum grade has not been met students are advised to contact the Department of Physiology at physiology.undergrad@utoronto.ca for approval.

Breadth Requirements: Living Things and Their Environment (4)

PSL421H1 - Pregnancy and Birth: From Implantation to Newborn Life

Hours: 24L

General overview of the integrated physiological events associated with fetal development, pregnancy and birth. The approach emphasizes physiological processes using insights gained from studies of humans, animals, cells and genes. Where appropriate the clinical consequences of aberrant development are reviewed.

Joint undergraduate/graduate course - PSL421H1/PSL1421H

Prerequisite: A final grade of 75% or higher in each of PSL300H1 and PSL301H1. If minimum is not reached, please contact the Department of Physiology at physiology.undergrad@utoronto.ca for approval.

Recommended Preparation: PSL420H1

Breadth Requirements: Living Things and Their Environment (4)

PSL424H1 - Cellular and Molecular Basis of Endocrine Disorders

Hours: 24S

Explore how researchers uncover the molecular and cellular basis of endocrine disorders. Learn about experimental design, state-of-the-art research tools, and data interpretation. Topics include disorders in: hormone regulation, secretion and action; circadian rhythms; and sexual development and reproduction. Each week students engage in class discussion related to research seminars delivered by faculty.

Prerequisite: PSL300H1, PSL301H1, PSL350H1/ BCH311H1/ CSB349H1/ MGY311Y1

Breadth Requirements: Living Things and Their Environment (4)

PSL425H1 - Integrative Metabolism and its Endocrine Regulation

Hours: 24L

This course integrates the newest findings and experimental approaches from cellular and molecular biology into metabolic function at the tissue, organ and whole body level.

Prerequisite: BCH210H1, PSL300H1, PSL301H1

Recommended Preparation: PSL305H1/ PSL303Y1

Breadth Requirements: Living Things and Their Environment (4)

PSL432H1 - Theoretical Physiology

Hours: 24L

Theoretical treatment of neurophysiology. Mathematical modeling and analysis of neurophysiological systems.

Joint undergraduate/graduate course - PSL432H1/PSL1432H

Prerequisite: MAT235Y1/ MAT237Y1; APM346H1/ MAT244H1 A minimum grade of 78% is required in MAT235Y1/ MAT237Y1; APM346H1/ MAT244H1. If minimum grade has not been met students are advised to contact the Department of Physiology at physiology.undergrad@utoronto.ca for approval.

Recommended Preparation: PHY200-series; PSL201Y1/ PSL300H1/ (BIO270H1, BIO271H1)

Breadth Requirements: Living Things and Their Environment (4)

PSL440Y1 - Neuroscience: Systems and Behaviour

Hours: 96L

Introduction to systems neuroscience. A review of basic neuroanatomy and physiology followed by in-depth study of selected sensory and motor systems, with an emphasis on clinical applications in the second term. Students with an elementary neuroscience background progress to reading neuroscience literature on their own.

Prerequisite: PSL300H1/ PSY290H1/ CSB332H1 or equivalent

Breadth Requirements: Living Things and Their Environment (4)

PSL445H1 - Neuroscience: Cellular and Molecular

Previous Course Number: PSL444Y1

Hours: 36L

Overview of the fundamentals of cellular and molecular aspects of brain function. Course material is updated yearly to reflect the rapid evolution of ideas in Neuroscience.

Joint undergraduate/graduate course -
PSL445H1/PSL1445H/JNR1444Y

Prerequisite: PSL300H1, PSL301H1, CJH332H1 or permission of instructor A minimum grade of 78% is required in PSL300H1, PSL301H1 and CJH332H1. If minimum grade has not been met students are advised to contact the Department of Physiology at physiology.undergrad@utoronto.ca for approval.

Exclusion: PSL444Y1

Breadth Requirements: Living Things and Their Environment (4)

PSL446H1 - Neural Disorders

Previous Course Number: PSL444Y1

Hours: 36L

Explore topics in neurological disorders and treatments to reinforce and expand your knowledge of cellular and molecular neurophysiology. Course material is updated yearly to reflect the rapid evolution of ideas in this area.

Joint undergraduate/graduate course -
PSL446H1/PSL1446H/JNR1444Y

Prerequisite: PSL300H1, PSL301H1, CJH332H1 or permission of instructor A minimum grade of 78% is required in PSL300H1, PSL301H1 and CJH332H1. If minimum grade has not been met students are advised to contact the Department of Physiology at physiology.undergrad@utoronto.ca for approval.

Exclusion: PSL444Y1

Breadth Requirements: Living Things and Their Environment (4)

PSL450H1 - Mechanisms of Neural and Endocrinal Secretion

Hours: 24L

Exocytosis and other aspects of secretion mainly in neurons and neuroendocrine cells, but also in pancreatic cells. Topics include synapse anatomy and physiology, synaptic plasma membrane and vesicle proteins, membrane fusion, genetic tools, endocrine secretion, plasticity in neurotransmitter release, diseases arising from secretion defects.

Prerequisite: BCH210H1, PSL300H1/(BIO240H1, BIO241H1), PSL350H1/ CSB349H1/ BCH311H1/ MGY311Y1

Breadth Requirements: Living Things and Their Environment (4)

PSL452H1 - Membrane Physiology

Hours: 24L

Biophysics and molecular biology of ion channels. Topics include equivalent circuits for cells, molecular structure of voltage-gated channels, distribution of channels, relationship between single-channel and whole-cell recording, and regulation of channel function by voltage, phosphorylation, G-proteins and metabolites.

Joint undergraduate/graduate course -
PSL452H1/PSL1452H

Prerequisite: PSL300H1, PSL301H1 A minimum grade of 75% is required in PSL300H1 and PSL301H1. If minimum grade has not been met students are advised to contact the Department of Physiology at physiology.undergrad@utoronto.ca for approval.

Breadth Requirements: Living Things and Their Environment (4)

PSL462H1 - Molecular Aspects of Cardiovascular Function

Hours: 36L

Heart anatomy and development, ion channels and contractile proteins involved in cardiac and smooth muscle contraction are studied. Emphasis is on regulation of electrical and contractile function of kinases, metabolism, volume and ions.

Joint undergraduate/graduate course -
PSL462H1/PSL1462H

Prerequisite: PSL300H1, PSL301H1 A minimum grade of 75% is required in PSL300H1 and PSL301H1. If minimum grade has not been met students are advised to contact the Department of Physiology at physiology.undergrad@utoronto.ca for approval.

Breadth Requirements: Living Things and Their Environment (4)

PSL470H1 - Cardiovascular Physiology

Hours: 24L

Development of the cardiovascular system from conception to adulthood with particular emphasis on maturational changes, age-related differences and

developmental problems from cellular/molecular to whole organ/system.

Prerequisite: PSL300H1, PSL301H1

Breadth Requirements: Living Things and Their Environment (4)

PSL472H1 - Sleep Physiology and Chronobiology

Hours: 24L

This course covers the physiology underlying sleep and circadian rhythms, and their impact on important physiological processes and health. The integrative nature of the basic physiological processes is emphasized via discussions and clinical presentations. Overall, the aim is to present the full spectrum of integrative physiology from molecules and cells to understanding the sick patient.

Prerequisite: PSL300H1, PSL301H1 A minimum grade of 75% is required in PSL300H1 and PSL301H1. If minimum grade has not been met students are advised to contact the Department of Physiology at physiology.undergrad@utoronto.ca for approval.

Breadth Requirements: Living Things and Their Environment (4)

PSL480H1 - Diving Physiology of Marine Mammals

Hours: 24L/6T

This course compares and contrasts the physiological and anatomical adaptations exhibited by the different species of marine mammals in relationship to humans, with respect to diving.

Prerequisite: (BIO270H1, BIO271H1)/ PSL201Y1/ PSL300H1, PSL301H1; PSL280H1

Breadth Requirements: Living Things and Their Environment (4)

PSL495H1 - Communicate Biomedical Science

Hours: 6L/2T/18S

Research, critique and write a manuscript on a topic of your choice in the scientific literature while guided by classes and assignments that develop advanced science communication skills; and by a mentor expert in your area of clinical or basic physiology.

Prerequisite: PSL300H1; PSL301H1; PSL372H1; 13.5 additional credits; and permission of Department

Exclusion: BCH479H1; HMB490H1; HMB491H1

Breadth Requirements: Living Things and Their Environment (4)

PSL496Y1 - Translational Physiology Research Project

Hours: 144P

Engage in supervised original science research, either basic or clinical, combined with a healthcare placement. Develop skills in defining scientific questions, designing experiments, analyzing data, and communicating your results. Gain insight into the power of translational bench-to-bedside research. Discover your interest in becoming a science researcher. Not eligible for CR/NCR option.

Prerequisite: PSL300H1, PSL301H1, PSL310H1, PSL372H1, permission of Department.

Exclusion: PSL497H1

Breadth Requirements: Living Things and Their Environment (4)

PSL497H1 - Translational Physiology Research Project

Hours: 72P

Engage in original science research, either basic or clinical, combined with a healthcare placement. Develop skills in defining scientific questions, designing experiments, analyzing data, and communicating your results. Gain insight into the power of translational “bench-to-bedside” research. Discover your interest in becoming a science researcher. Not eligible for CR/NCR option.

Prerequisite: PSL300H1, PSL301H1, PSL310H1, PSL372H1, permission of Department.

Exclusion: PSL496Y1

Breadth Requirements: Living Things and Their Environment (4)

PSL498Y1 - Project in Physiology

Hours: 144P

Laboratory research project with reading assignments leading to a final report. By special arrangement with a Physiology staff member after admission to course. PSL498Y1 is recommended for students applying to the Physiology graduate program. Enrollment in this course is restricted to students in the Physiology Specialist and Major Programs, although permission is granted to

students in other programs upon approval by the Department. Not eligible for CR/NCR option.

Prerequisite: (PSL304H1, PSL305H1)/ PSL303Y1, PSL372H1, PSL374H1, permission of Department

Breadth Requirements: Living Things and Their Environment (4)

PSL499H1 - Project in Physiology

Hours: 72P

Laboratory research project with reading assignments leading to a final report. By special arrangement with a Physiology staff member after admission to course. PSL499H1 is recommended for students applying to the Physiology graduate program. Enrollment in this course is restricted to students in the Physiology Specialist and Major Programs, although permission is granted to students in other programs upon approval by the Department. Not eligible for CR/NCR option.

Prerequisite: (PSL304H1, PSL305H1)/ PSL303Y1, PSL372H1, PSL374H1, permission of Department

Breadth Requirements: Living Things and Their Environment (4)

Planetary Science

Given by the David A. Dunlap Department of Astronomy and Astrophysics

Planetary Science Programs

Planetary Science Specialist (Science Program) - ASSPE1073

The Planetary Sciences Specialist covers the chemical, geological, and physical processes that define planetary environments, and provides excellent training for a wide range of future careers.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(14.0 credits, including 2.0 credits at the 300+ level, of which 1.0 credit must be at the 400-level)

First year:

1. ([PHY131H1](#), [PHY132H1](#)) / ([PHY151H1](#), [PHY152H1](#))
2. ([MAT135H1](#), [MAT136H1](#)) / [MAT135Y1](#) / [MAT137Y1](#)
3. 1.0 credit from: [CHM135H1](#), [CHM136H1](#), [CSC108H1](#) / [CSC148H1](#) / [EEB125H1](#), [JEG100H1](#), [STA220H1](#)

First or second year:

Planetary Science Courses

PLN420H1 - Interdisciplinary Seminar in Planetary Science

Hours: 24S

Discussion of topics of current interest in planetary science with emphasis on papers published in scientific

4. [MAT223H1](#) / [MAT240H1](#)

5. [MAT235Y1](#) / [MAT237Y1](#)

6. [MAT244H1](#) / [MAT267H1](#)

7. [AST221H1](#), [AST222H1](#)

Second or third year:

8. [ESS261H1](#), [ESS262H1](#)

9. [PHY252H1](#), [PHY254H1](#)

10. ([CHM222H1](#), [CHM223H1](#)) / ([PHY250H1](#), [PHY256H1](#))

11. 1.0 credit from: [CHM210H1](#), [CHM236H1](#), [CHM237H1](#), [ESS223H1](#), [ESS224H1](#), [ESS241H1](#), [GGR201H1](#), [PHY224H1](#)

12. [AST310H1](#) / [ENV222H1](#) / [ENV333H1](#) / [ESS205H1](#) / [HPS200H1](#) / [JPH441H1](#) / [PHL273H1](#) / [VIC172Y1](#), or another course with a significant emphasis on Social and Ethical Responsibility approved by the Undergraduate Chair.

Upper years:

13. [AST320H1](#)

14. [JPE395H1](#)

15. [AST425Y1](#)

16. [AST325H1](#), [PHY405H1](#), [PHY407H1](#), [PHY408H1](#), [PHY324H1](#), [CHM327H1](#), or any research course (such as [AST430H1](#), [ESS450H1](#), [ESS391H1](#), [PHY372H1](#)), by permission of the Undergraduate Chair

17. 1.0 credit from: [PHY350H1](#), [PHY354H1](#), [PHY385H1](#), [PHY392H1](#), [PHY454H1](#), [PHY460H1](#), [PHY483H1](#), [PHY492H1](#), [ESS311H1](#), [ESS445H1](#), [ESS452H1](#), [ESS361H1](#), [ESS461H1](#), [CHM326H1](#), [CHM415H1](#), [JPE493H1](#), [APM346H1](#)

journals. This course is intended for students in the final year of the Planetary Science specialist program. Students must enrol with the course coordinator.

Breadth Requirements: The Physical and Mathematical Universes (5)

PLN425H1 - Research in Planetary Science

Hours: 120P

Research report by student in consultation with individual staff member in Astronomy, Chemistry, Geology or Physics. This course is intended for students in the final year of the Planetary Science specialist program. Students must enrol with the course coordinator. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

Political Science

Faculty List

University Professors

† D. Breznitz, BA, PhD
 R. Hirschl, LLB, MA, MPhil, PhD, FRSC
 J.G. Stein, MA, PhD, LLD, FRSC, OC, OOnt (U)

Professors Emeriti

E. Adler, MA, PhD, FRSC
 E.G. Andrew, BA, PhD
 J.S. Barker, MA, PhD (N)
 S. Bashevkin, MA, PhD, FRSC (U)
 R.S. Beiner, BA, DPhil, FRSC (University of Toronto Mississauga)
 † S. Borins, BA, MPP, PhD
 † A.S. Brudner, LLB, MA, PhD, FRSC
 J.H. Carens, MPhil (Theol), MPhil, PhD, FRSC
 M.W. Donnelly, MA, PhD
 V.C. Falkenheim, MA, PhD
 J.F. Fletcher, MA, PhD
 H.D. Forbes, MA, PhD
 F.J.C. Griffiths, MIA, PhD (U)
 R.S. Haddow, MSc, PhD
 G. Horowitz, MA, PhD
 J.J. Kirton, MA, PhD (T)
 B. Kovrig, MA, PhD (T)
 † A.M. Kruger, BA, PhD
 L. LeDuc, MA, PhD (SM)
 R.A. Manzer, MA, PhD (University of Toronto Scarborough)
 R.O. Matthews, BA, MIA, PhD (T)
 † J. Nedelsky, MA, PhD
 N. Nevitte, MA, PhD, FRSC
 D.M. Rayside, AM, PhD, FRSC (U)
 A.G. Rubinoff, MA, PhD (University of Toronto Scarborough)
 K.R.J. Sandbrook, MA, DPhil, FRSC
 D.V. Schwartz, MA, PhD
 G. Skogstad, MA, PhD (University of Toronto Scarborough)
 P.H. Solomon, MA, PhD
 S.G. Solomon, MA, PhD (University of Toronto Scarborough)
 R.E. Stren, MA, PhD, Dhc (I)
 C. Tuohy, MA, PhD, FRSC
 R. Vipond, AM, PhD (V)
 † L.E. Weinrib, BA, LLB, LLM
 G. White, MA, PhD (University of Toronto Mississauga)
 N. Wiseman, MA, PhD (U)
 D.A. Wolfe, MA, PhD (University of Toronto Mississauga)

Associate Professor Emeritus, Teaching Stream

M. Lippincott, MA, PhD (University of Toronto Mississauga)

Professor and Chair (UTSG)

R.K. Balot, MA, PhD, FRSC

Professor and Tri-Campus Graduate Chair

M. Kohn, MA, PhD (University of Toronto Scarborough)

Associate Professor and Associate Chair (Graduate Studies)

T. Enright, BA, PhD

Professor and Associate Chair (Undergraduate Studies)

R.E. Kingston, MA, PhD

Professor and Associate Chair (Faculty Research and Awards)

L. White, MA, PhD

Professors

† A.B. Bakan, BAH, MA, PhD
 S. Bernstein, MA, PhD (University of Toronto Mississauga)
 J. Bertrand, MSc, MA, PhD
 A. Braun, MA, PhD (University of Toronto Mississauga) (T)
 D.R. Cameron, MSc, PhD, OC, FRSC, CM
 J.A. Clark, MA, PhD (University of Toronto Mississauga)
 † D.B. Cook, MA, PhD (V)
 † Y. Dawood, MA, JD, PhD
 R.B. Day, Dip REES, MA, PhD (University of Toronto Mississauga)
 † R.B. Deber, SM, PhD, FRSC
 † R.J. Deibert, MA, PhD, OC, OOnt (T)
 † J.F. Green, MPA, PhD
 † K.H. Green, MA, PhD (U)
 A. Handley, MPhil, PhD
 R. Hansen, MPhil, DPhil (T)
 M.J. Hoffmann, MPhil, PhD (University of Toronto Scarborough)
 C. Jung, MA, PhD
 P.W.T. Kingston, MA, MPhil, DPhil (University of Toronto Scarborough)
 R.E. Kingston, MA, PhD
 † R. Levi, BCL, LLB, LLM, SJD
 † P. Lipsky, MA, PhD
 P.R. Magocsi, MA, MA, PhD, FRSC
 † M.S. Manger, MSc, PhD
 C. Norrlof, MA, PhD (University of Toronto Scarborough)
 † A.H. Olive, MA, PhD (University of Toronto Mississauga)
 † L. Ong, AM, PhD
 C. Orwin, AM, PhD (SM)
 L.W. Pauly, MA, MSc, PhD, FRSC (T)
 † I. Peng, MA, PhD, FRSC (T)
 † K. Roach, LLB, LLM, FRSC

N. Roberts, MA, PhD (University of Toronto Scarborough)
 A. Sabl, AB, PhD
 E. Schatz, MA, PhD (University of Toronto Mississauga)
 † D. Schneiderman, LLB, LL.M.
 † A. Shachar, BA, LLB, LL.M., JSD, FRSC
 † A. Stark, MSc, AM, PhD
 J.A. Teichman, MA, PhD, FRSC (University of Toronto Scarborough)
 W.J. Tetley, MA, PhD, FGA (University of Toronto Scarborough)
 T. Triadafilopoulos, MA, PhD (University of Toronto Scarborough)
 L. Way, MA, PhD (University of Toronto Scarborough)
 M.S. Williams, AM, PhD (T)
 J. Wong, MA, PhD

Associate Professors

A.S. Ahmad, MA, PhD (University of Toronto Scarborough)
 N. Bertoldi, MA, PhD
 O. Chyzh, MA, PhD
 C. Cochrane, MA, PhD (University of Toronto Scarborough)
 † J. Craft, MA, PhD
 G. Dancy, MA, PhD (University of Toronto Mississauga)
 † M.J. Donnelly, MA, PhD
 † D.L. Eyoh, MA, PhD (N)
 D. Fu, MPhil, DPhil (University of Toronto Scarborough)
 L. Gilady, MA, MPhil, PhD
 S. Gunitsky, MA, MPhil, PhD
 C. Hossein, MPA, PhD (University of Toronto Scarborough)
 † M. Light, MA, JD, PhD
 † R.A. Marshall, MA, DPhil
 P.L. McCarney, MCP, PhD
 K. Murali, MSc, PhD
 E. Nacol, MA, MPhil, PhD (University of Toronto Mississauga)
 † K.J. Neville, MEd, PhD (T)
 A.K. Onoma, MA, PhD
 † W. Prichard, MPhil, DPhil
 S. Renckens, MSc, MA, MPhil, PhD (University of Toronto Scarborough)
 R. Schertzer, MSc, PhD (University of Toronto Scarborough)
 T. Shanks, BA, PhD (University of Toronto Scarborough)
 † D. Turner, BA, PhD
 Z. Wai, MA, PhD (University of Toronto Scarborough)
 M. Walton, MA, PhD
 † A. Yoon, BA, LL.M., PhD

Associate Professors (Teaching Stream)

K. Ariga, MA, MA, MCP, PhD
 R. Levine, MA, PhD (University of Toronto Scarborough)

Assistant Professors

E. Acorn, MA, JD, PhD (University of Toronto Scarborough)
 N. Anderson, BA, PhD (University of Toronto Mississauga)
 M. Balaguera, MA, PhD (University of Toronto Mississauga)
 R. Besco, MA, PhD (University of Toronto Mississauga)
 A. Chang, MA, PhD (University of Toronto Mississauga)
 W.R.N. Compaoré, MA, PhD (University of Toronto Mississauga)
 C. Cowie, MA, PhD (University of Toronto Scarborough)
 C. Ewing, AM, PhD
 F. Kahraman, MA, PhD (University of Toronto Scarborough)
 U. Maile, MS, PhD
 A.W. McDougall, LLB, MA, PhD (University of Toronto Scarborough)
 B. McElroy, MA, PhD
 M. Mendez Gutierrez, BA, PhD
 E. Merkley, MA, PhD
 † J. Moreau, MA, PhD
 † M.D. Nieman, MA, PhD
 T. Pavone, MA, PhD
 M. Phillips, MA, PhD (University of Toronto Mississauga)
 † C. Pomeroy, MSc, MSc, PhD
 A. Reisenbichler, MA, PhD (University of Toronto Mississauga)
 L. Salman, PhD
 M. Schramm, MA, PhD
 S. Sevi, MA, PhD
 A. Smith, MA, PhD (University of Toronto Mississauga)
 N. Wu, MA, PhD

Assistant Professors (Teaching Stream)

N. Adiv, MS, PhD (University of Toronto Mississauga)
 J. Campisi, MA, PhD (University of Toronto Scarborough)
 M. Hamilton, MA, PhD (University of Toronto Scarborough)
 R. Hurl, MA, PhD
 D. Kingsbury, MA, PhD
 S. Kotsovilis, MA, PhD (University of Toronto Mississauga)
 P. E. Mockler, MA, PhD
 † L. Rabinowitz, MA, PhD

CLTA

E. McCallion, MA, PhD
 † D. Nedal, MA, PhD

† Cross-appointed

Introduction

The study of Political Science at the University of Toronto is wide-ranging and diverse. Courses are offered in political theory, Canadian government, international relations, and the politics of societies that are industrialized, developing, and in transition. Many courses deal with issues (such as environmental politics, diversity, peace and conflict, globalization) that cut across fields. Course offerings are designed to introduce students to Political Science at the first year level, provide the foundations for further study at the second year level, and provide specialized lecture and seminar courses at the intermediate and advanced levels. Studies in Political Science provide students with a good grounding in one of the chief social science disciplines and an opportunity to explore the issues that confront us as individuals, groups, societies and on the international level in the twenty-first century. In addition to the materials covered, Political Science courses are set up to offer students an opportunity to learn writing and analytical skills to support a challenging and diverse career.

Courses in Political Science dovetail with programs in many other disciplines of the social sciences and the humanities: Economics, Sociology, History, Philosophy, and Psychology. A student interested in Canadian studies or urban problems, for example, would be well advised to choose courses from all these disciplines, as would someone interested in international affairs or environmental studies. A student planning graduate work in the social sciences should seek to obtain a basic understanding of each of these disciplines.

Detailed information on our programs, extended descriptions of courses, and background information on the interests of our instructors can be found on our website. The Association of Political Science Students, the students' organization for Political Science undergraduates, has an office in Room 1091, Sidney Smith Hall.

Undergraduate Director: Professor Rebecca Kingston,
Sidney Smith Hall, Room 3018, (416) 978-3342,
rebecca.kingston@utoronto.ca

Student and Alumni/Advancement Coordinator: Elizabeth Jagdeo,
Sidney Smith Hall, Room 3027, (416) 978-0900,
e.jagdeo@utoronto.ca

Enquiries: Mary-Alice Bailey, Sidney Smith Hall, Room 3032, (416) 978-6567, undergrad.polsci@utoronto.ca

Undergraduate Program Information and Course Descriptions: <https://politics.utoronto.ca/>

Political Science Programs

Political Science Specialist (Arts Program) - ASSPE2015

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required for students who have completed 4.0 to 8.5 credits:

- 1.0 credit from POL101H1, POL106H1, POL107H1, POL109H1 with a grade of 65% in each; or
- 0.5 credit from POL101H1, POL106H1, POL107H1, POL109H1 with a grade of 65%, and 0.5 credit from POL193H1, POL194H1, POL195H1, POL196H1, POL197H1, POL198H1, MUN101H1, MUN102H1, TRN151Y1, TRN160Y1, TRN162Y1, TRN172Y1, VIC110H1, VIC121H1, VIC167H1, VIC168H1, VIC181H1, VIC183H1, VIC184H1, VIC185H1, WDW151H1, WDW152H1 with a grade of 65%

For students who have completed 9.0 or more credits:

- 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses (excluding POL193H1, POL194H1, POL195H1, POL196H1, POL197H1, POL198H1) with a grade of 70% in each; or
- 1.5 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses (excluding POL193H1, POL194H1, POL195H1, POL196H1, POL197H1, POL198H1) with a grade of 70% in each, and 0.5 credit from POL193H1, POL194H1, POL195H1, POL196H1, POL197H1, POL198H1, MUN101H1, MUN102H1, TRN151Y1, TRN160Y1, TRN162Y1, TRN172Y1, VIC110H1, VIC121H1, VIC167H1, VIC168H1, VIC181H1, VIC183H1, VIC184H1, VIC185H1, WDW151H1, WDW152H1 with a grade of 70%

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year

3 entry. Students applying for Year 3 entry must have been admitted to the Political Science Specialist in the Summer after Year 2 and have completed POL200Y1, POL214H1/ POL224H1, POL222H1, POL232H1.

Completion Requirements:

(10.0 credits)

Of these:

- 4.0 credits at the 300+ level including 1.0 credit at the 400 level.
- No more than 1.0 credit of 100-level courses may be used to fulfill the program requirements.
- No more than 1.0 credit of courses offered outside of the Department of Political Science may be used to fulfill the program requirements. See the bottom of the completion requirements section for a full list of such acceptable courses.

First Year:

- 1.0 credit from: POL101H1, POL106H1, POL107H1, POL109H1. A maximum of 0.5 credit may be substituted from the following first-year courses: POL193H1, POL194H1, POL195H1, POL196H1, POL197H1, POL198H1, MUN101H1, MUN102H1, TRN151Y1, TRN160Y1, TRN162Y1, TRN172Y1, VIC110H1, VIC121H1, VIC167H1, VIC168H1, VIC181H1, VIC183H1, VIC184H1, VIC185H1, WDW151H1, WDW152H1.

Higher Years:

1. POL200Y1
2. 0.5 credit from: POL201H1, POL208H1, POL218H1
3. POL214H1/ POL224H1
4. 0.5 credit at the 200+ level in Canadian Politics from JPI201H1, POL220H1, POL312H1, POL312Y1, POL313H1, POL316H1, POL316Y1, POL334H1, POL336H1, POL337H1, POL337Y1, POL344H1, POL344Y1, POL351H1, POL353H1, POL356H1, POL356Y1, POL363H1, POL382H1, POL404Y1, POL428H1, POL439H1, POL450H1, POL467H1, POL474H1, POL490H1, POL491H1

Some offerings of other POL Special Topics courses that cover Canadian politics may also be eligible as determined by the department. Please see Department's website <https://politics.utoronto.ca/undergraduate/courses/canadian-politics-co...> for a full listing of Canadian politics courses.

5. POL222H1

(OR one of ECO220Y1, PSY201H1, SOC202H1, STA220H1). Please note only 0.5 of ECO220Y1 will be accepted towards the program.

6. POL232H1 (or GGR270H1)
7. 1.0 credit in Diversity and Identity. The following courses fulfill the Diversity and Identity requirement: POL101H1, POL194H1, POL195H1, POL197H1, POL198H1, POL198Y1, JPI201H1, POL219H1, POL220H1, POL223H1, POL303H1, POL305H1, POL305Y1, POL309H1, POL310H1, JPS315H1, JPS316H1, POL325H1, POL329H1, JPA331H1, POL333H1, POL338H1, POL344H1, POL344Y1, POL348H1, POL351H1, POL353H1, POL360H1, JPR364H1, JPR365H1, JPR374H1, JPS378H1, POL418H1, POL428H1, POL432H1, POL442H1, POL444H1, POL447H1, POL450H1, JPA453H1, JPR458H1, JPR459H1, POL467H1.

Some offerings of other POL Special Topics courses may also be eligible as determined by the department. Please see Department's website <https://politics.utoronto.ca/undergraduate/courses/diversity-identity-p...> for a full listing of Diversity and Identity courses.

8. POL320Y1/ POL320H1/ POL321H1, or 0.5 credit in Quantitative Methods at the 300+ level from: POL304H1, POL314H1, POL419H1, POL478H1
9. Additional POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses to a total of 10.0 credits.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Note:

- Non-POL courses that may be used to fulfill the program requirements: AFR353H1/ NEW353H1, AFR455H1/ NEW455H1, CAR226H1/ NEW226H1, CAR324H1/ NEW324H1, CAR426H1, CRI390H1, CRI393H1, DTS314H1, EAS307H1, GER275H1, GER290H1, GGR324H1, GGR339H1, GGR344H1, GGR429H1, MUN101H1, MUN102H1, PCJ260Y1, RLG434H1, TRN151Y1, TRN160Y1, TRN162Y1, TRN172Y1, URB339H1/ INI339H1, VIC110H1, VIC121H1, VIC167H1, VIC168H1, VIC181H1, VIC183H1, VIC184H1, VIC185H1, VIC476H1, WDW151H1, WDW152H1
- Some courses may contribute to both the Canadian Politics and Diversity and Identity requirements (in requirements 4 and 7). Refer to the Department website for a full list of courses that meet these requirements.

Political Science Major (Arts Program) - ASMAJ2015

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required for students who have completed 4.0 to 8.5 credits:

- 1.0 credit from POL101H1, POL106H1, POL107H1, POL109H1 with a grade of 65% in each; or
- 0.5 credit from POL101H1, POL106H1, POL107H1, POL109H1 with a grade of 65%, and 0.5 credit from POL193H1, POL194H1, POL195H1, POL196H1, POL197H1, POL198H1, MUN101H1, MUN102H1, TRN151Y1, TRN160Y1, TRN162Y1, TRN172Y1, VIC110H1, VIC121H1, VIC167H1, VIC168H1, VIC181H1, VIC183H1, VIC184H1, VIC185H1, WDW151H1, WDW152H1 with a grade of 65%

For students who have completed 9.0 or more credits:

- 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses (excluding POL193H1, POL194H1, POL195H1, POL196H1, POL197H1, POL198H1) with a grade of 70% in each; or
- 1.5 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses (excluding POL193H1, POL194H1, POL195H1, POL196H1, POL197H1, POL198H1, MUN101H1, MUN102H1, TRN151Y1, TRN160Y1, TRN162Y1, TRN172Y1, VIC110H1, VIC121H1, VIC167H1, VIC168H1, VIC181H1, VIC183H1, VIC184H1, VIC185H1, WDW151H1, WDW152H1 with a grade of 70%

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Political Science Major in the

Summer after Year 2 and have completed POL200Y1, POL214H1/ POL224H1, POL222H1.

Completion Requirements:

(7.0 credits)

Of these:

- 2.0 credits at the 300+ level including a 0.5 credit at the 400 level.
- No more than 1.0 credit of 100-level courses may be used to fulfill the program requirements.
- No more than 1.0 credit of courses from outside of the Department of Political Science may be used to fulfill the program requirements. See the bottom of the completion requirements section for a full list of such acceptable courses.

First Year:

- 1.0 credit from: POL101H1, POL106H1, POL107H1, POL109H1. A maximum of 0.5 credit may be substituted from the following first-year courses: POL193H1, POL194H1, POL195H1, POL196H1, POL197H1, POL198H1, MUN101H1, MUN102H1, TRN151Y1, TRN160Y1, TRN162Y1, TRN172Y1, VIC110H1, VIC121H1, VIC167H1, VIC168H1, VIC181H1, VIC183H1, VIC184H1, VIC185H1, WDW151H1, WDW152H1.

Higher Years:

1. POL200Y1
2. 0.5 credit from: POL201H1, POL208H1, POL218H1
3. POL214H1/ POL224H1
4. 0.5 credit at the 200+ level in Canadian Politics from JPI201H1, POL220H1, POL312H1, POL312Y1, POL313H1, POL316H1, POL316Y1, POL334H1, POL336H1, POL337H1, POL337Y1, POL344H1, POL344Y1, POL351H1, POL353H1, POL356H1, POL356Y1, POL363H1, POL382H1, POL404Y1, POL428H1, POL439H1, POL450H1, POL467H1, POL474H1, POL490H1, POL491H1

Some offerings of other POL Special Topics courses that cover Canadian politics may also be eligible as determined by the department. Please see Department's website <https://politics.utoronto.ca/undergraduate/courses/canadian-politics-co...> for a full listing of Canadian politics courses.

5. POL222H1

(OR one of ECO220Y1, PSY201H1, SOC202H1, STA220H1). Please note only 0.5 of ECO220Y1 will be accepted towards the program.

6. 1.0 credit in Diversity and Identity. The following courses fulfill the Diversity and Identity requirement: POL101H1, POL194H1, POL195H1, POL197H1, POL198H1, POL198Y1, JPI201H1, POL219H1, POL220H1, POL223H1, POL303H1, POL305H1, POL305Y1, POL309H1, POL310H1, JPS315H1, JPS316H1, POL325H1, POL329H1, JPA331H1, POL333H1, POL338H1, POL344H1, POL344Y1, POL348H1, POL351H1, POL353H1, POL360H1, JPR364H1, JPR365H1, JPR374H1, JPS378H1, POL418H1, POL428H1, POL432H1, POL442H1, POL444H1, POL447H1, POL450H1, JPA453H1, JPR458H1, JPR459H1, POL467H1.

Some offerings of other POL Special Topics courses may also be eligible as determined by the department. Please see Department's website <https://politics.utoronto.ca/undergraduate/courses/diversity-identity-p...> for a full listing of Diversity and Identity courses.

7. Additional POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses to a total of 7.0 credits.

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Note:

- Non-POL courses that may be used to fulfill the program requirements: AFR353H1/ NEW353H1, AFR455H1/ NEW455H1, CAR226H1/ NEW226H1, CAR324H1/ NEW324H1, CAR426H1, CRI390H1, CRI393H1, DTS314H1, EAS307H1, GER275H1, GER290H1, GGR324H1, GGR339H1, GGR344H1, GGR429H1, MUN101H1, MUN102H1, PCJ260Y1, RLG434H1, TRN151Y1, TRN160Y1, TRN162Y1, TRN172Y1, URB339H1/ INI339H1, VIC110H1, VIC121H1, VIC167H1, VIC168H1, VIC181H1, VIC183H1, VIC184H1, VIC185H1, VIC476H1, WDW151H1, WDW152H1
- Some courses may contribute to both the Canadian Politics and Diversity and Identity requirements (in requirements 4 and 6). Refer to the Department website for a full list of courses that meet these requirements.

Political Science Minor (Arts Program) - ASMIN2015

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required for students who have completed 4.0 to 8.5 credits:

- 1.0 credit from POL101H1, POL106H1, POL107H1, POL109H1 with a grade of 65% in each; or
- 0.5 credit from POL101H1, POL106H1, POL107H1, POL109H1 with a grade of 65%, and 0.5 credit from POL193H1, POL194H1, POL195H1, POL196H1, POL197H1, POL198H1, MUN101H1, MUN102H1, TRN151Y1, TRN160Y1, TRN162Y1, TRN172Y1, VIC110H1, VIC121H1, VIC167H1, VIC168H1, VIC181H1, VIC183H1, VIC184H1, VIC185H1, WDW151H1, WDW152H1 with a grade of 65%

For students who have completed 9.0 or more credits:

- 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses (excluding POL193H1, POL194H1, POL195H1, POL196H1, POL197H1, POL198H1) with a grade of 65% in each; or
- 0.5 credit from POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses (excluding POL193H1, POL194H1, POL195H1, POL196H1, POL197H1, POL198H1) with a grade of 65%, and 0.5 credit from POL193H1, POL194H1, POL195H1, POL196H1, POL197H1, POL198H1, MUN101H1, MUN102H1, TRN151Y1, TRN160Y1, TRN162Y1, TRN172Y1, VIC110H1, VIC121H1, VIC167H1, VIC168H1, VIC181H1, VIC183H1, VIC184H1, VIC185H1, WDW151H1, WDW152H1 with a grade of 65%

Completion Requirements:

(4.0 credits)

- 4.0 POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA credits. Of these, at least 1.0 credit must be at the 300+ level.

Note:

- No more than 1.0 credit of 100-level courses may be used to fulfill the program requirements.
- No more than 1.0 credit of courses from outside of the Department of Political Science may be used to fulfill the program requirements. AFR353H1/ NEW353H1, AFR455H1/ NEW455H1, CAR226H1/ NEW226H1, CAR324H1/ NEW324H1, CAR426H1, CRI390H1, CRI393H1,

DTS314H1, EAS307H1, GER275H1, GER290H1, GGR324H1, GGR339H1, GGR344H1, GGR429H1, MUN101H1, MUN102H1, PCJ260Y1, RLG434H1, TRN151Y1, TRN160Y1, TRN162Y1, TRN172Y1, URB339H1, INI339H1, VIC110H1, VIC121H1, VIC167H1, VIC168H1, VIC181H1, VIC183H1, VIC184H1, VIC185H1, VIC476H1, WDW151H1, WDW152H1 are examples of such courses.

Regarding Political Science Courses

- Not all courses listed in the Calendar are offered every year. Please check the [Department's website](#) for the list of courses offered.
- Prerequisites and exclusions are enforced for all 200, 300 and 400-level courses. Please consult the POL section of the Faculty of Arts & Science [Program Toolkit](#) and [Course Enrolment Instructions](#) for details. Students without course prerequisites will be removed at any time they are discovered.
- Enrolment is limited for all 300-level and 400-level courses. See the [Arts & Science Program Toolkit](#) and [Course Enrolment Instructions](#) for details.
- Nearly all POL 400-level courses are offered as joint undergraduate-graduate seminars with class sizes ranging from 15-25.

Breadth Requirements: Society and its Institutions (3)

Political Science Courses

POL101H1 - The Real World of Politics: An Introduction

Previous Course Number: POL101Y1

Hours: 24L/12T

This course introduces students to compelling issues of contemporary politics through the lens of classic and important texts in political science. The course covers the politics of climate change, Indigenous rights, elections and electoral systems, terrorism, social movements and political activism, voting, democracy, and power.

Exclusion: POL101Y1

Breadth Requirements: Society and its Institutions (3)

POL106H1 - Contemporary Challenges to Democracy: Democracy in the Social Media Age

Hours: 24L/12T

This course examines the latest evidence-based research on the effects of social media on democracy. We cover surveillance capitalism, privacy, disinformation, and the often-overlooked ecological implications of data consumption. We also examine targeted digital espionage against civil society, Citizen Lab research reports, and explore solutions and alternatives to social media.

POL107H1 - What Went Wrong? A Post Mortem of Political Disasters, Catastrophic Policy Failures, and Epic Marches of Folly

Hours: 24L/12T

Why do individuals, groups, and societies make repeated, and often easily predictable mistakes? Why do they persist in courses of action that produce disastrous results? Why is it that in the political world good intentions are insufficient to ensure good results? This course employs the political science analytical toolkit to answer these questions and examines an array avoidable disasters, from the local to the international.

Exclusion: POL486H1 (Topics in International Politics I: What Went Wrong? A Post Mortem of Political Disasters, Policy Failures and Marches of Folly), offered in Winter 2019 and Winter 2020; POL487H1 (Topics in International Politics II: What Went Wrong? A Post Mortem of Political Disasters, Catastrophic Policy Failures), offered in Winter 2018

Breadth Requirements: Society and its Institutions (3)

POL109H1 - Might and Right: Power and Justice in International Relations

Hours: 24L/12T

This course explores the relationship between justice, power, and interests in the works of prominent ancient, modern, and contemporary thinkers. It adopts a problem-driven approach and engages with current controversies in international relations in light of insights from classic books. Special attention is paid to the prospects of a just world order, the causes and justifications of war, the construction of images of citizens and enemies, and the nature of duties to outsiders.

Exclusion: POL323Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

POL193H1 - First-Year Foundation Seminar: Politics and the Arts

Hours: 24S

A study of political ideas as found in literature, plays, art works and film.

Restricted to first-year students.

Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

POL195H1 - First-Year Foundation Seminar: Settler Colonialism and Enduring Indigeneity

Hours: 24S

This seminar explores the politics of representation in Indigenous multimedia. We study Indigenous cultural productions—memoir, documentary, graphic novel, film, poetry, music, and video games—to examine representations of settler colonialism and how Indigenous peoples endure it.

Restricted to first-year students.

Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

POL196H1 - First-Year Foundation Seminar: The China Challenge

Hours: 24S

China's meteoric rise to great power status has triggered an intense international debate over its global implications. While many analysts see Beijing's rise as posing a threat to global political and economic stability, Chinese leaders have argued forcefully that China's efforts to regain its historic preeminence will result in a 'win-win' outcome for all states. This course will assess the merits of these contending positions through an historical examination of China's 20th century renaissance. The course will begin by tracing the long period of imperial decline in the 19th century, culminating in China's revolutionary rebirth as a Marxist state in 1949. A major focus will be on the Mao-era legacy of revolutionary diplomacy and the foreign policy consequences of its later transformation into a market-authoritarian powerhouse.

Restricted to first-year students.

Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

POL197H1 - First-Year Foundation Seminar: Politics and Sports: Identity, Activism, and Political Economy

Hours: 24S

The course aims to introduce first year students to key themes in political science – power, race, ethnicity, gender, sexuality, class, nationalism, social movements, activism, and political economy – through the lens of sports and those who participate in them.

Restricted to first-year students.

Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

POL198H1 - First-Year Foundation Seminar: Social Justice and the City

Previous Course Number: POL198Y1

Hours: 24S

An introduction to the concept of social justice from an urban perspective. It will highlight how unequal relations of race, class, gender, sexuality, and ability operate through the urban environment, and how these conditions can be contested through political mobilization.

Restricted to first-year students.

Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

POL200Y1 - Political Theory: Visions of the Just/Good Society

Hours: 48L/24T

A selective presentation of critical encounters between philosophy and politics, dedicated to the quest for articulation and founding of the just/good society. Among the theorists examined are Plato, Aristotle, Machiavelli, Hobbes and Locke.

Exclusion: POL200Y5/ POLC70H3/ POLC71H3

Breadth Requirements: Society and its Institutions (3), Thought, Belief and Behaviour (2)

POL201H1 - Politics of Development

Previous Course Number: POL201Y1

Hours: 24L/12T

This course offers an introduction to the history and politics of economic and political development, starting with the Industrial Revolution and then turning to a critical analysis of the politics of economic growth, international trade, debt, state intervention, protectionism, and neo-liberalism in the global periphery, including Africa, Asia, and Latin America.

Prerequisite: 4.0 credits, or 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL201Y1/ POLB90H3/ POLB91H3

Breadth Requirements: Society and its Institutions (3)

JPI201H1 - Indigenous Politics in Canada

Previous Course Number: POL308H1

Hours: 24L/12T

This course explores key issues in Indigenous politics in Canada. Provides students with an overview of historical and contemporary socio-political issues in Indigenous societies and institutions such as Indigenous self-governance, land claims and treaty negotiations.

Prerequisite: 4.0 credits, or 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses, or INS201Y1

Exclusion: POL308H1/ POLC56H3

Recommended Preparation: POL214H1/ POL224H1

Breadth Requirements: Creative and Cultural Representations (1)

POL205H1 - International Relations in the Anthropocene

Hours: 24L/12T

Humans have altered the planet so dramatically that some geologists have coined a new epoch: the Anthropocene. Is our study of global politics up to the challenge of human-driven environmental change? In this course, we consider multiple perspectives on IR to make sense of geopolitics on a changing planet.

Prerequisite: 4.0 credits, or 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Living Things and Their Environment (4)

POL208H1 - Introduction to International Relations

Previous Course Number: POL208Y1

Hours: 24L/12T

This introductory course examines some key themes and issues in global politics, including interstate war, human rights, international institutions, and the evolution of the global order.

Prerequisite: 4.0 credits, or 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL208Y1/ POL208Y5/ POL209H5/ POLB80H3/ POLB81H3

Breadth Requirements: Society and its Institutions (3)

POL212H1 - Understanding War

Hours: 24L/12T

General introduction to the study of war, covering basic concepts and theories and surveying a selection of key topics and debates. Sessions revolve around a few essential readings, which must be completed before class and will serve as a basis for various in-class and in-tutorial activities including presentations, case studies, simulations, and games.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Recommended Preparation: POL208H1

Breadth Requirements: Society and its Institutions (3)

POL214H1 - Canadian Government

Previous Course Number: POL214Y1
Hours: 24L/12T

An introduction to the study of Canadian government. Topics include institutions of governance: the constitution, machinery of government, charter of rights and freedom, and the electoral system.

Prerequisite: 4.0 credits, or 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL214Y1/ POL214Y5/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3

Breadth Requirements: Society and its Institutions (3)

POL218H1 - State, Society and Power in Comparative Perspective

Hours: 24L/12T

This course is designed to introduce students to major issues and challenges that shape states, determine how they are governed, and how they change. The course helps to explain major events such as state transformation, democratization, authoritarian rule, civil conflict and social mobilization.

Prerequisite: 4.0 credits, or 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL219H1 - Unpacking Political Systems: Institutions and Behavior in Comparative Perspective

Hours: 24L/12T

This course aims to unpack the institutional and behavioral variation within political systems. The goal is to expose students to the key questions and theories in comparative politics around three themes: a) the origins and effects of political institutions (federalism, electoral rules, bicameralism, courts...); b) party and electoral behavior across democracies and authoritarian regimes; and c) explaining quality of governance (issues of representation, accountability, trust, corruption). We will draw on cutting edge research and touch on current events and a variety of cases.

Prerequisite: 4.0 credits, or 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL220H1 - Immigration, Multiculturalism, and Citizenship in Canada

Hours: 24L/12T

This course deals with three inter-related themes – immigration, multiculturalism, and citizenship – by focusing on a single unifying question: What does it mean to “belong” to the Canadian political community? Who belongs, on what terms, and to what ends? A range of materials – normative, empirical, historical, and contemporary – will be used.

Prerequisite: 4.0 credits, or 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Recommended Preparation: POL214H1/ POL224H1

Breadth Requirements: Society and its Institutions (3)

POL222H1 - Introduction to Quantitative Reasoning I

Hours: 24L/12T

Introduces the foundation of quantitative empirical research methods - increasingly popular and important part of political science research and public policy debates - to enable students to interpret and evaluate the study results that employ these methods. Topics include quantitative study of politics and various empirical research designs.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL242Y5/ ECO220Y1/ PSY201H1/ SOC202H1/ STA220H1

Breadth Requirements: Society and its Institutions (3)

POL223H1 - Globalization and Development: Issues and Challenges

Hours: 24L/12T

This course examines how globalization creates opportunities and challenges to development in the Global South. Key issues considered include globalization and dynamics of inequality amongst and within nations, human rights and democratic struggles, environmental sustainability and justice, gender and racialized patterns of inequality, trade, foreign aid and poverty alleviation.

Prerequisite: 4.0 credits, or 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL224H1 - Canada in Comparative Perspective

Previous Course Number: POL224Y1

Hours: 24L/12T

This course introduces students to aspects of Canadian political life by comparing them with those that prevail in other advanced democracies. Themes covered will include the Canadian constitution, federalism, parties and elections, political culture and social and economic institutions and policies.

Prerequisite: 4.0 credits, or 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL111H5/ POL214H1/ POL214Y1/ POL214Y5/ POL215H5/ POL216H5/ POL224Y1/ POLB50Y3

Breadth Requirements: Society and its Institutions (3)

POL232H1 - Introduction to Quantitative Reasoning II

Hours: 24L/12T

Building up on POL222H1, students will continue to develop theoretical foundations of quantitative empirical research, such as probability theory, statistical inference, and linear regression analysis. They will also learn the basic use of statistical software and become able to conduct basic data analysis by the end of the semester.

Prerequisite: POL222H1

Exclusion: POL242Y5/ GGR270H1

Breadth Requirements: Society and its Institutions (3)

POL299H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

POL299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

POL300Y0 - Topics in Comparative Politics

Hours: 48L

An introduction to the field of comparative politics. Content in any given year depends on instructor.

(Offered as part of the Summer Abroad Program)

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL301H1 - Colonial Legacies and Post-Independence African Politics

Previous Course Number: POL301Y1

Hours: 24L

This course highlights the critical roles of pre-colonial and colonial histories in shaping contemporary political and economic developments in Africa. It covers the emergence of colonial states, the central legacies of colonial rule, and the impact of colonialism in shaping process of state and nation building from independence to the present.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL301Y1

Breadth Requirements: Society and its Institutions (3)

POL302H1 - Politics and Society in 20th Century China

Previous Course Number: POL302Y1

Hours: 24L

This course examines China's efforts to reconstitute its political institutions following the collapse of the imperial system in 1911. Particular attention is paid to the clash between competing conceptions of political development and the rival political movements and forces that espoused them. The search for an effective and stable political order is a major focus of the course.

Exclusion: POL302Y1/ POLC16H3

Breadth Requirements: Society and its Institutions (3)

POL303H1 - Women in Western Political Thought

Hours: 24L

Examines contemporary feminist perspectives in political theory as responses to the limitations of western tradition of modern political theory.

Prerequisite: PHL265H1/ POL200Y1/ POL200Y5/ POLC70H3/ POLC71H3

Exclusion: POLC76H3/ POLC77H3

Breadth Requirements: Thought, Belief and Behaviour (2)

POL304H1 - Topics in Methods

Hours: 24L

Various topics are taken up each year, the content of which depends on the instructor.

Prerequisite: POL232H1 or equivalent

Breadth Requirements: Society and its Institutions (3)

POL305H1 - Introduction to Latin American Politics and Societies

Previous Course Number: POL305Y1

Hours: 24L

This course introduces students to histories and concepts necessary to understand developments in Latin American politics. Substantive issues will include the changing face of state sovereignty; human rights and social movements; the legacies of (neo)colonialism and indigenous resistance; neoliberalism, 21st century socialism, and beyond.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL305Y1/ POL360H5/ POLC91H3/ POLC99H3

Breadth Requirements: Society and its Institutions (3)

POL307H1 - Japanese Politics

Hours: 24L

The politics, political economy, and international relations of Japan. The role of political parties, the bureaucracy, and private actors; economic development and stagnation; relations with the USA and regional neighbors. Contemporary challenges facing Japan, including energy

policy and climate change, contributions to the liberal order, and response to geopolitical challenges.

Prerequisite: 1.0 POL 200-level credit

Exclusion: POL380H1 (Topics in International Politics: Japanese Politics), offered in Winter 2020 and Winter 2021

Breadth Requirements: Society and its Institutions (3)

POL309H1 - Contemporary African Politics: Dynamics and Challenges

Previous Course Number: POL301Y1

Hours: 24L

This course explores main drivers of political organization and change in contemporary Africa, focusing on how national, regional, and international factors shape institutions, patterns of participation and political change. It considers major scholarly debates in the study of African politics and political economy and develops analytical skills for comparative study of this diverse continent.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL301Y1

Breadth Requirements: Society and its Institutions (3)

POL310H1 - Nationality Building in Central Europe

Previous Course Number: JHP451Y1

Hours: 24L

This course is a case study of nationalism based on the experience of a stateless people in Europe called Carpatho-Rusyns. Emphasis is on how factors such as historical ideology, language, education, religion, and politics are used by the intelligentsia to create a national consciousness among the inhabitants.

Prerequisite: Completion of 4.0 credits

Exclusion: JHP451Y1

Recommended Preparation: A course in modern European, East European or Russian history of politics.

Breadth Requirements: Society and its Institutions (3)

POL312H1 - Canadian Foreign Policy Performance

Previous Course Number: POL312Y1

Hours: 24L

The literature, competing theories, basic interests and values, and instruments of Canadian foreign policy, as they have developed and performed under successive Liberal, Progressive Conservative and Conservative party governments since 1945 and especially from 2015 to 2021.

Prerequisite: POL208H1/ POL208Y1/ POL209H5/ POLB80H3

Exclusion: POL312Y1

Recommended Preparation: Courses in International Relations and/or Canadian government would be useful.

Breadth Requirements: Society and its Institutions (3)

POL313H1 - Canadian Foreign Policy Process

Previous Course Number: POL312Y1

Hours: 24L

The external, societal, governmental and individual influences determining Canadian foreign policy making toward all global regions in the developed, emerging and developing world and central security, ecological, health, societal and economic issues, including the use of force, climate change, infectious disease, gender equality, relations with Indigenous peoples and trade.

Prerequisite: POL208H1/ POL208Y1/ POL209H5/ POLB80H3

Exclusion: POL312Y1

Recommended Preparation: Courses in International Relations and/or Canadian government would be useful.

Breadth Requirements: Society and its Institutions (3)

POL314H1 - Public Opinion and Voting

Hours: 24L

This course introduces students to the attitudes and behaviours of the mass public in Canada and other western democracies and how they shape elections and policy making. Themes include political participation, the mass media, and the nature of social, psychological, and economic, and elite-driven forces on public opinion and voting.

Prerequisite: POL222H1

Exclusion: POLC21H3

Recommended Preparation: POL232H1 or POL242Y5

Breadth Requirements: Thought, Belief and Behaviour (2)

JPS315H1 - LGBTQ Politics

Hours: 24L

This is an interdisciplinary course examining the development of the Lesbian, Gay, Bisexual, Transgender and Queer (LGBTQ) movement and its interaction with the state in the US and Canada. *(Given by the Department of Political Science and the Sexual Diversity Studies Program)*

Prerequisite: SDS255H1/ SDS256H1/ UNI255H1/ UNI256H1/1.0 credit on the politics of 20th century Europe, U.S., or Canada/1.0 credit on gender or sexuality/permission of the instructor

Exclusion: JPU315H1

Breadth Requirements: Society and its Institutions (3)

JPS316H1 - Indigenous Feminist and Queer Theories

Hours: 24L

This course explores Indigenous feminist and queer political thought. We survey comparative political theories developed by scholars in the field of Indigenous, gender, and feminist studies. Charting key developments in the field, the course investigates unique and innovative ideas about affect, decolonization, erotics, utopia, and much more. *(Given by the Department of Political Science and the Sexual Diversity Studies Program)*

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA/ SDS, or 0.5 in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA and 0.5 in SDS

Exclusion: POL377H1 Topics in Comparative Politics I (*Indigenous Feminist and Queer Theories*) taken in Winter 2020 (LEC0101), Winter 2021 (LEC0101), Winter 2022 (LEC0201)

Recommended Preparation: POL195H1 (First-Year Foundation Seminar – *Settler Colonialism and Enduring Indigeneity*), JPI201H1, INS201Y1

Breadth Requirements: Society and its Institutions (3)

POL316H1 - Contemporary Canadian Federalism

Previous Course Number: POL316Y1

Hours: 24L

Constitutional, political, administrative, and financial aspects of federal-provincial relations, regionalism, and cultural dualism.

Prerequisite: POL214H1/ POL214Y1/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3

Exclusion: [POL316Y1/ POL316Y5/ POL353Y5/ POLC54H3/ POLC57H3](#)

Breadth Requirements: Society and its Institutions (3)

POL317H1 - Comparative Public Policy

Hours: 24L

Draws from the major theoretical traditions in public policy and policymaking of the advanced industrial world, and applies these theories in understanding the developing world context and the new challenges of global change.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL320H1 - Modern Political Thought: Freedom and Equality

Previous Course Number: POL320Y1

Hours: 24L/12T

An exploration of ideas of freedom in the rise of the modern age from the 18th and 19th centuries, from the Age of Enlightenment to the Age of Democratic Revolutions. Thinkers studied include Rousseau, Burke, and Wollstonecraft.

Prerequisite: [POL200Y1/ POL200Y5/ \(POLC70H3, POLC71H3\)](#)

Exclusion: [POL320Y1/ POL320Y5/ POLC73H3/ POLC74H3](#)

Recommended Preparation: None

Breadth Requirements: Thought, Belief and Behaviour (2)

POL321H1 - Modern Political Thought: Progress Through History

Previous Course Number: POL320Y1

Hours: 24L/12T

An exploration of modern political thought from the 19th to the beginning of the 20th centuries. Themes include the idea of progress through history and its implications for politics, as explored by thinkers such as J.S. Mill, Marx, Hegel, and Nietzsche.

Prerequisite: [POL200Y1/ POL200Y5/ \(POLC70H3, POLC71H3\)](#)

Exclusion: [POL320Y1/ POL320Y5/ POLC73H3/ POLC74H3](#)

Recommended Preparation: [POL320H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

POL324H1 - European Union: Politics, Institutions and Society

Hours: 24L

The course provides an in-depth understanding of the history, political institutions, and policies of the European Union. It also explores the key contemporary social and political debates facing the European Union today such as the eurozone crisis, the rise of Euroskepticism, issues of democratic legitimacy, Brexit, issues of enlargement, immigration and the recent migrant crisis.

Prerequisite: [POL207Y1/ POL218H1/ POL219H1/ EUR200Y1](#)

Breadth Requirements: Society and its Institutions (3)

POL325H1 - Contemporary Latin American Politics

Previous Course Number: POL305Y1

Hours: 24L

This course focuses on 21st century Latin American Politics. Specific attention will be paid to the 'Pink Tide' of left of centre governments and their aftermaths; enduring legacies of resource extraction driven development models, and Latin America's position in shifting geopolitical contexts.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: [POL305Y1/ POL360H5/ POLC91H3/ POLC99H3](#)

Breadth Requirements: Society and its Institutions (3)

POL326H1 - The Politics of U.S. Foreign Policy

Previous Course Number: POL326Y1

Hours: 24L

This course explores the making of foreign policy in the U.S. through a detailed examination of the institutions of the U.S. government involved, as well as the forces acting upon them to shape policy. After exploring theoretical approaches to the subject, it examines the evolution of the constitutional context within which U.S. foreign policy has been articulated, the bureaucracies involved in shaping policy, the impact of elections, groups and the mass media.

Prerequisite: [POL208H1/ POL208Y1/ POL209H5/ POLB80H3](#)

Exclusion: [POL326Y1/ POL327Y5](#)

Breadth Requirements: Society and its Institutions (3)

POL327H1 - U.S. Foreign Policy in a Complex World

Previous Course Number: POL326Y1

Hours: 24L

This course explores the foreign policy of the U.S. through a series of regional and thematic case studies. It begins with a historical review of U.S. foreign policy in the evolution of the U.S. as a major global power, prior to WWII. Among the case studies of U.S. foreign policy included are international organization and law, terrorism, environment (climate), Latin America, Europe, Middle East, China/East Asia, Africa and Russia.

Prerequisite: [POL208H1/ POL208Y1/ POL209H5/ POLB80H3](#)

Exclusion: [POL326Y1/ POL327Y5](#)

Breadth Requirements: Society and its Institutions (3)

POL328H1 - Politics and Government in South Asia

Previous Course Number: POL328Y1

Hours: 24L

This course introduces students to politics in South Asia in the period after independence from colonial rule. It focuses on India, Pakistan, Sri Lanka and Bangladesh. The themes discussed in the course are important both to South Asia as well as to a general study of politics in developing countries.

Prerequisite: [POL201H1/ POL201Y1/ POLB90H3/ POLB91H3](#)

Exclusion: [POL328Y1](#)

Breadth Requirements: Society and its Institutions (3)

POL329H1 - Experiences of Conflict

Hours: 24L

The course reviews selected novels that deal with personal and collective experiences of conflict. It focuses on representations of how conflict is experienced. It gives students a practical understanding of the human dimension of selected major conflicts and explores possibilities for personal and social resistance to injustice and violence. Special attention is paid to questions of

identity formation and moral choice in contexts of war and nationalism.

Prerequisite: [POL208H1/ POL208Y1/ POL209H5/ POLB80H3/ POLB81H3](#)

Breadth Requirements: Society and its Institutions (3)

JPA331H1 - Rise of China as a Global Power

Previous Course Number: JPA331Y1

Hours: 24L

This course will take students through important domestic institutions and events in China that shape its current political landscape. Students will be prompted to think about the implications of domestic political factors for China's rise as a global power. The course examines major China's adventurism abroad, such as the Belt-and-Road Initiative, and what increasing footprints of Chinese state and private firms overseas mean for international politics.

(Given by the Department of Political Science and the Contemporary Asian Studies Program)

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses, or 1.0 CAS credit

Exclusion: [JPA331Y1/ POLC16H3](#)

Breadth Requirements: Society and its Institutions (3)

JPA331Y0 - Rise of China as a Global Power

Previous Course Number: JPA331Y1

Hours: 48L

This course will take students through important domestic institutions and events in China that shape its current political landscape. Students will be prompted to think about the implications of domestic political factors for China's rise as a global power. The course examines major China's adventurism abroad, such as the Belt-and-Road Initiative, and what increasing footprints of Chinese state and private firms overseas mean for international politics. *(Offered as part of the Summer Abroad program)*

(Given by the Department of Political Science and the Contemporary Asian Studies Program)

Prerequisite: 2.0 POL credits/1.0 CAS credit

Exclusion: [JPA331H1/ JPA331Y1/ POLC16H3](#)

Breadth Requirements: Society and its Institutions (3)

POL333H1 - Global Politics and Global Political Thought

Hours: 24L

This course will examine three pressing contemporary topics (examples include: environmental justice and the natural world; race and identity politics; and international and cosmopolitan visions) through the theoretical and analytical lenses provided by the political thought of non-Western cultural traditions and from particular marginalized identity perspectives.

Prerequisite: POL200Y1

Exclusion: POL381H1 (Topics in Political Theory: *Global Politics and Global Political Thought*) taken in Winter 2020 (LEC0101), Winter 2021 (LEC0101), Winter 2022 (LEC0101), Winter 2023 (LEC0201)

Breadth Requirements: Thought, Belief and Behaviour (2)

POL334H1 - Ontario and Quebec Politics

Hours: 24L

An examination of politics in Canada's two most populous provinces. Drawing insights from comparative political economy scholarship, the course compares their politics in term of their distinctive historical origins, and their political economies, party systems, cultures, and relations with the federal government.

Prerequisite: POL214H1/ POL214Y1/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3

Exclusion: POLC55H3

Breadth Requirements: Society and its Institutions (3)

POL336H1 - Topics in Provincial Politics

Hours: 24L

Content in any given year depends on instructor.

Prerequisite: POL214H1/ POL214Y1/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3

Exclusion: POL336Y5

Breadth Requirements: Society and its Institutions (3)

POL337H1 - The Canadian Constitution

Previous Course Number: POL337Y1

Hours: 24L

The moral foundations, historical events, political forces and legal ideas that have shaped the Canadian constitution; the roots, legacies, and judicial interpretation of the Constitution Act 1867, the Constitution Act 1982, and in particular the Charter of Rights and Freedoms; the constitutional framework of federalism; the politics of constitutional change; multiculturalism, 'rights talk', and the judicialization of politics.

Prerequisite: POL214H1/ POL214Y1/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3

Exclusion: POL337Y1/ POLC68H3

Breadth Requirements: Society and its Institutions (3)

POL338H1 - Queer International Relations

Hours: 24L

Are States straight? How does racialized homophobia shape the international order? This course tackles these and other questions at the intersection of sexuality and IR. We examine concepts like sovereignty through a queer lens and explore issues like transphobia in right-wing populism and the institutionalization of SOGI terminology at the UN.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL380H1 (Topics in International Politics: Queer IR), offered in Winter 2020 (L5101), Winter 2021 (L0201) and Winter 2022 (L0201)

Recommended Preparation: Prior coursework in SDS or WGS is recommended.

Breadth Requirements: Society and its Institutions (3)

POL340H1 - International Law: Foundations

Previous Course Number: POL340Y1

Hours: 24L

This course will introduce students to the primary sources of international law (treaties and customary international law) and the legal attributes of the core actors in the international system, including states, international organizations and individuals. Related topics will include governance of territory and the seas.

Prerequisite: POL208H1/ POL208Y1/ POL209H5/ POLB80H3

Exclusion: POL340Y1/ POL340Y5/ POLC38H3

Breadth Requirements: Society and its Institutions (3)

POL341H1 - International Law: Operation of the International Legal Order

Previous Course Number: POL340Y1

Hours: 24L

This course will expose students to the operation of international legal order with respect to the use of armed force, the law of armed conflict, and the protection of human rights. Students will also be introduced to how dispute settlement works between states.

Prerequisite: POL208H1/ POL208Y1/ POL209H5/ POLB80H3

Exclusion: POL340Y1/ POL340Y5/ POLC38H3

Recommended Preparation: It is highly recommended that students take POL340H1 (International Law: Foundations) before taking this course.

Breadth Requirements: Society and its Institutions (3)

POL344H1 - Social Movements in Europe and North America

Hours: 24L

A comparative examination of the development of a variety of social movements and their engagement with state institutions. Among the activist movements examined are civil rights, women's rights, sexual orientation rights, environmental and Indigenous rights mobilization.

Exclusion: POL344Y1

Recommended Preparation: 1.0 credit on 20th century politics or history of Europe, U.S. or Canada/1.0 credit on gender or sexuality

Breadth Requirements: Society and its Institutions (3)

POL347H1 - U.S. Government and Politics: Constitutional Structure and Development

Previous Course Number: POL386Y1

Hours: 24L

This course examines the constitutional foundations of American politics—the separation of powers, federalism, and rights. Major themes include the historical origins of the American constitution, the transformation of American constitutionalism from the Civil War to the New Deal, and the struggle over the meaning of American constitutionalism in the 21st century.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL203Y1/ POL203Y5/ POL386Y1/ POLC92H3/ POLC93H3

Recommended Preparation: POL214H1/ POL224H1/ POL200Y1 and/or a course in U.S. history

Breadth Requirements: Society and its Institutions (3)

POL348H1 - Privilege and Race in Global Perspective

Hours: 24L

This course considers how notions of race and privilege “travel” and how they have developed and functioned in contexts outside of a North American White/non-White categorization, where they interact with other axes of identity, including Indigeneity, ethnicity and caste.

Prerequisite: POL200Y1

Exclusion: POL381H1 (Topics in Political Theory: *Privilege and Race in Global Perspective*) taken in Winter 2019 (LEC0101), Fall 2019 (LEC0101), Fall 2020 (LEC0101), Fall 2021 (LEC0101)

Breadth Requirements: Thought, Belief and Behaviour (2)

POL349H1 - Global Urban Politics

Hours: 24L

An examination of how political life is being transformed in the global urban age. Concepts such as territory, the state, citizenship, agency, sovereignty, and power will be reconsidered through a particularly urban lens.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL350H1 - Politics of East Central Europe

Hours: 24L

This course examines political change in East Central Europe from the Middle Ages to the present. How are democracies created and why do they collapse? Did Eastern and Western Europe diverge politically centuries ago, or is the idea of a longstanding east-west divide largely an artefact of Cold War geopolitics?

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA

Exclusion: POL377H1 (Topic: *The Making of Modern*

Democracy: From the Middle Ages to the European Union) offered in Fall 2022 and 2023.

Recommended Preparation: Some prior knowledge of the broad outlines of European history.

Breadth Requirements: Society and its Institutions (3)

POL351H1 - Gender, Politics, and Public Policy in Comparative Perspective

Hours: 24L

An introduction to gender and politics that examines women as political actors and their activities in formal and grassroots politics. The course also explores the impact of gender in public policy and how public policies shape gender relations. Cases to be drawn on include Canada, other countries in North America and Europe, and the developing world.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL352H1 - Introduction to Qualitative Research Methods

Previous Course Number: POL252H1

Hours: 24L/12T

This course introduces students to qualitative research methods in political science (e.g., interviews, participant observation, case studies). It provides opportunities to acquire hands-on experience with these methods and prepares students to carry out their own research projects.

Note: POL352H1 cannot be used as a substitute for POL222H1 for POL major/specialist program, or POL232H1 for the POL specialist program.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: ENV223H1, POL252H1, SOC204H1, GGR271H1

Recommended Preparation: 0.5 POL 200-level course

Breadth Requirements: Society and its Institutions (3)

POL354H1 - Politics and Society in Russia

Hours: 24L

Explores the evolution of Russian politics and society since the collapse of the Soviet Union. Major themes include political leadership, state-building, federalism and

regional diversity, public opinion and political culture, civil society and protest, political economy, Russia's behavior on the international stage, and Soviet legacies.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL354Y5

Breadth Requirements: Society and its Institutions (3)

POL356H1 - Canadian Political Parties and Elections

Hours: 24L

The evolution and setting of Canada's federal party system and Canadian elections. Topics include historical and theoretical perspectives, the Liberal, Conservative and New Democratic parties, third parties, leadership selection and local nominations, the representation of women and minorities in Parliament, electoral systems and election rules, campaigns, and voter behaviour.

Prerequisite: POL214H1/ POL214Y1/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3

Exclusion: POL356Y1

Breadth Requirements: Society and its Institutions (3)

POL357H1 - Topics in South Asian Politics

Previous Course Number: POL357Y1

Hours: 24L

Selected issues in South Asian politics. Content in any given year depends on instructor.

Prerequisite: POL201H1/ POL201Y1/ POLB90H3/ POLB91H3

Breadth Requirements: Society and its Institutions (3)

POL358H1 - Conflicts, Minority Rights and Para-States in Europe

Previous Course Number: POL359Y1

Hours: 24L

This course examines a number of unresolved issues in Europe that are largely shaped by real and perceived shortcomings in minority rights. After a section on Roma Rights in Central Europe, our focus turns to the origins and outcomes of largely separatist wars in Azerbaijan, Cyprus, Georgia, Moldova and Ukraine and the peace agreements that followed.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL359Y1

Recommended Preparation: Students will be expected to be completely familiar with the historical context of the region we study.

Breadth Requirements: Society and its Institutions (3)

POL359H1 - Enlarging Europe: The European Union and Its Applicants

Previous Course Number: POL359Y1

Hours: 24L

European integration remains one of the most important and successful political experiments in recent history. This course looks at the historical impetus for European integration after the Second World War and to the recent trends in this process, as well as its future prospects as the Union's borders enlarge and it confronts new challenges.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL359Y1

Recommended Preparation: Interest in European History and Politics.

Breadth Requirements: Society and its Institutions (3)

POL360H1 - Topics in Latin American Politics

Hours: 24L

Selected issues in Latin American politics. Content and instructor vary from year to year.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL361H1 - Global Political Economy: History and Theory

Hours: 24L

The course introduces the contemporary history of world economic order and the ideas underpinning that order. It also provides an orientation to the field of study devoted to understanding and explaining underlying political dynamics.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses; (ECO101H1, ECO102H1)/ ECO105Y1

Exclusion: POLC69H3

Breadth Requirements: Society and its Institutions (3)

POL362H1 - Global Political Economy: Policy and Analysis

Hours: 24L

This course focuses on key aspects of world economic order, like policies governing trade, capital flows, migration, development, and telecommunications. Methods for analyzing the background and implications of such policies are introduced.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses; (ECO101H1, ECO102H1)/ ECO105Y1

Recommended Preparation: POL361H1

Breadth Requirements: Society and its Institutions (3)

POL363H1 - Canadian Political Development

Hours: 24L

This course introduces students to Canadian political development – an approach that shows how attention to history can illuminate and explain patterns of Canadian politics. The course introduces students to core theories and tools of a developmental approach, then applies this approach to key moments, contestations, and institutions in Canadian politics.

Prerequisite: POL214H1/ POL224Y1/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3

Exclusion: POL382H1 (Topics in Canadian Politics: Canadian Political Development), offered in Winter 2018, Winter 2019

Breadth Requirements: Society and its Institutions (3)

JPR364H1 - Religion and Politics in the Nation State

Previous Course Number: JPR364Y1

Hours: 24L

This course will engage with contemporary debates on religion and politics in the context of the nation-state in our post-9/11 world, and will do so comparatively across a wide range of contexts.

The emphasis will be on understanding the evolving relationship between religion and politics in liberal democracies, and examining challenges facing democratic politics from the religious sphere, both in the

West, where secular liberalism is the dominant framework for discussing these questions, and in Africa, India, and the Middle East, where such a framework is more likely to be contested. The themes explored will include secularization, religious pluralism and tolerance, human rights regimes, the idea of "civil religion," the impact of religion on party politics, the formation of identity and political community, the legal regulation of sometimes-competing claims based on religious faith, gender, and sexuality, and the rise of extremist forms of religious politics, conspiracy thinking, new online communities that lead to dangerous political outcomes, such as 'QAnon' and 'Plandemic'. Cases studies will include the USA, Canada, France, Turkey, Egypt, Nigeria.

(Given by the Departments of Political Science and Religion)

Prerequisite: 0.5 credit in POL/ JPI/ RLG courses at the 200+ level, or 1.0 credit in HIS/ PHL/ SOC courses at the 200-level

Exclusion: JPR364Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

JPR365H1 - Global Religion and Politics

Previous Course Number: JPR364Y1

Hours: 24L

This course will engage with contemporary debates on religion and politics in the international context in our post-9/11 world, and will do so comparatively across a wide range of contexts.

The emphasis will be on understanding the evolving role transnational religion has played in the past three decades, where new global networks have emerged as central global actors. We will focus empirically on the rise of radical reformist Islam and evangelical Christianity, the two most dramatically successful forms of religiosity around the world today. We will study the implications for the foreign policies of key nation-states, as well as the forces that have contributed to the prevalence of contestatory religious politics and networks as new and poorly understood global actors. International religious freedom, human rights, the role of media and mediation, the place of religious or theological doctrines or imaginaries in constructing and motivating a range of political goals, many involving the use of violence. We will focus as well on the global spread of extremist forms of religious politics, conspiracy thinking, new online communities that lead to dangerous political outcomes, such as 'QAnon' and 'Plandemic'. Many of the cases will focus on the non-Western world, especially the Middle East and Africa. *(Given by the Departments of Political Science and Religion)*

Prerequisite: 0.5 credit in POL/ JPI/ RLG courses at the 200+ level, or 1.0 credit in HIS/ PHL/ SOC courses at the 200-level

Exclusion: JPR364Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

JPR374H1 - Religion and Power in the Postcolony

Hours: 24L

This course examines the role of a variety of religious forms and spiritual practices in the politics of postcolonial societies, tracing their genealogies from the colonial period to the present. Cases taken principally from Africa and Asia.

(Given by the Departments of Political Science and Religion)

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses at the 200+ level, or 1.5 credits in RLG courses

Breadth Requirements: Society and its Institutions (3)

JPA376Y0 - Transforming Global Politics: Comparative and Chinese Perspectives

Hours: 48L

Set against the backdrop of the rise of China, this course examines the dynamics of global change from comparative and Chinese perspectives. Themes include international security, political economy, political development and democracy, global climate change, economic development, poverty and inequality, corruption, technology innovation, among others.

(Given by the Department of Political Science and the Contemporary Asian Studies Program)

Prerequisite: POL208H1/ POL208Y1/ POL209H5/ POLB80H3/ POLB81H3/ POL224H1/ POL224Y1/ CAS200Y1

Breadth Requirements: Society and its Institutions (3)

POL377H1 - Topics in Comparative Politics I

Hours: 24L

An introduction to the field of comparative politics. Content in any given year depends on instructor.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL378H1 - Topics in Comparative Politics II

Hours: 24L

An introduction to the field of comparative politics. Content in any given year depends on instructor.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

JPS378H1 - Sex and the State

Hours: 24L

What role have sex and sexuality played in the formation of the modern nation State? How has the State regulated sex? This course explores these questions with a theoretical focus on biopolitics. We will proceed in two parts. First, we engage Foucault's *History of Sexuality* and its reception by postcolonial theorists, focusing on questions of state building. The second part of the course shifts examination from State formation to contemporary forms of sexual regulation by the State. This includes maintenance of the public/private divide, citizenship law and nationalism, administrative violence and the prison industrial complex, and neoliberalism and BDSM. By the end of the course, students are able to apply core theoretical concepts and identify forms of contemporary sexual regulation in a variety of Western and non-Western contexts.

(Given by the Department of Political Science and the Mark S. Bonham Centre for Sexual Diversity Studies.)

Prerequisite: A combined minimum of 1.0 credit from POL and/or SDS courses

Exclusion: POL378H1 (Topics in Comparative Politics II: Sex and the State), offered in Fall 2017 and Fall 2018; SDS375H1 (Special Topics in Sexual Diversity Studies A: Sex and the State), offered in Fall 2017 and Fall 2018

Breadth Requirements: Society and its Institutions (3)

POL379H1 - Topics in Comparative Politics III

Hours: 24L

An introduction to the field of comparative politics. Content in any given year depends on instructor.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL380H1 - Topics in International Politics

Hours: 24L

Content in any given year depends on instructor.

Prerequisite: POL208H1/ POL208Y1/ POL209H5/ POLB80H3

Breadth Requirements: Society and its Institutions (3)

POL381H1 - Topics in Political Theory

Hours: 24L

A detailed examination of particular authors or topics in political theory. Content in any given year depends on instructor.

Prerequisite: POL200Y1/ POL200Y5/ (POLC70H3, POLC71H3)

Breadth Requirements: Thought, Belief and Behaviour (2)

POL382H1 - Topics in Canadian Politics

Hours: 24L

Examines in depth enduring and emerging issues in Canadian politics. Content in any given year depends on instructor.

Prerequisite: POL214H1/ POL214Y1/ POL214Y5/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3

Breadth Requirements: Society and its Institutions (3)

POL384H1 - Global Environmental Governance from the Ground Up

Hours: 24L

This course focuses on non-state actors in global environmental governance, considering the motivations, actions, and strategies of non-governmental organizations, grassroots communities, and corporations.

The course uses analytic tools from international relations and comparative politics to understand patterns of environmental protest, resistance, and change over time.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses at the 200+ level

Recommended Preparation: [POL201H1](#)/ [POL208H1](#)

Breadth Requirements: Society and its Institutions (3)

POL385H1 - Issues in Contemporary Greece

Hours: 24L

This course is designed to comprehensively explore the theoretical, conceptual and empirical dimensions through the political history of the Greek state from the 19th c. to the present, and, to provide students with the critical skills to follow, understand and systematically analyze contemporary Greek politics. The class will alternate between highlights of Greek political history, theoretical foundations of major themes in Comparative Politics, and their empirical application to the politics of the Modern Greek state.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL386H1 - U.S. Government and Politics

Previous Course Number: POL386Y1

Hours: 24L

Who rules the United State of America? This course will investigate this question by examining how power is attained and how power is exercised in American elections, the legislative process, the bureaucracy, and the federal courts. Particular attention will be paid to the role of national interest groups, regional economic interests, and new modes of political mobilization.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: [POL203Y1](#)/ [POL203Y5](#)/ [POL386Y1](#)/ [POLC92H3](#)/ [POLC93H3](#)

Recommended Preparation: [POL214H1](#)/ [POL224H1](#)/ [POL200Y1](#) and/or a course in U.S. history

Breadth Requirements: Society and its Institutions (3)

POL387H1 - Politics in Europe

Previous Course Number: POL207Y1

Hours: 24L

This course applies the basic concepts in comparative politics to the political systems of Europe. We will cover theories of transitions to democracy, formation and development of the nation-state, political institutions and their effects, parties and party systems and elections and electoral behaviour. We will use these theories to gain a better understanding of politics in Europe. We will also address some of the major challenges that Europe and the EU have recently faced such as the eurozone crisis, Brexit, the rise of populism and extreme right parties and the challenges of immigration and incorporation of minorities. The goal is for students to become familiar with the politics and governments of contemporary Europe through the lens of current and classic themes in comparative politics.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses, or [EUR200Y1](#)

Exclusion: [POL207Y1](#)/ [POL302Y5](#)

Recommended Preparation: [POL218H1](#)/ [POL219H1](#)

Breadth Requirements: Society and its Institutions (3)

POL388H1 - Politics and Government of Southeast Asia

Hours: 24L

This course provides an overview of political regimes in Southeast Asia, as well as some of the main issues that shape its political life. It includes legacies of colonial rule, nationalist struggles, democratization, ethnic and secessionist conflict, as well as social movement.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Recommended Preparation: [POL218H1](#)

Breadth Requirements: Society and its Institutions (3)

POL395H1 - Research Participation

Credit course for supervised participation in a faculty research project. Offered only when a faculty member is willing and available to supervise. Interested faculty review plans with the Undergraduate Director, and then make the opportunity known to students as appropriate. Check with Undergraduate Office for more details and faculty proposal form.

Not eligible for CR/NCR option.

Prerequisite: Available to students in their third year of study (who have completed at least 9.0 credits)

Exclusion: [POL299Y1](#)

POL396H1 - Research Participation

Credit course for supervised participation in a faculty research project. Offered only when a faculty member is willing and available to supervise. Interested faculty review plans with the Undergraduate Director, and then make the opportunity known to students as appropriate. Check with Undergraduate Office for more details and faculty proposal form.

Not eligible for CR/NCR option.

Prerequisite: Available to students in their third year of study (who have completed at least 9.0 credits)

Exclusion: POL299Y1

POL398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

POL398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

POL399H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

POL399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

JRA401H1 - Topics in Comparative Politics V

Hours: 24S

Selected issues in comparative politics. Content and instructor vary from year to year.

(Given by the Department of Political Science and the Centre for European and Eurasian Studies)

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL402H1 - Problems in the Political Thought of the Socratic School

Hours: 24S

Study of a small number of texts illuminating the origins and/or legacy of Socratic political philosophy.

Prerequisite: POL200Y1/ POL200Y5/(POLC70H3, POLC71H3)

Breadth Requirements: Thought, Belief and Behaviour (2)

JRA402H1 - Topics in Comparative Politics VI

Hours: 24S

Selected issues in comparative politics. Content and instructor vary from year to year.

(Given by the Department of Political Science and the Centre for European and Eurasian Studies)

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL405H1 - The Military Instrument of Foreign Policy: Concepts and Approaches

Previous Course Number: POL459Y1

Hours: 24S

In light of endemic international threats and conflicts, the seminar analyses the use of the military instrument of foreign policy. We meld theoretical and pragmatic approaches. Among the subjects covered are civil-military relations, the development of nuclear weapons, deterrence and nuclear deterrence, arms control and war termination strategies.

Prerequisite: [POL208H1/ POL208Y1/ POL209H5/ POLB80H3](#)

Exclusion: [POL459Y1](#)

Breadth Requirements: Society and its Institutions (3)

POL410H1 - Topics in Comparative Politics III

Hours: 24S

Selected issues in comparative politics. Vary from year to year.

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL412H1 - Human Rights and International Relations

Hours: 24S

Human rights have become dominant in international politics since the end of World War II. The process of creating and implementing human rights is political. We explore historical, philosophical, and empirical explanations of the roots, effects, and implications of human rights today through a variety of topics.

Prerequisite: [POL201H1/ POL201Y1/ POL208H1/ POL208Y1/ POL209H5/ POLB80H3/ POLB90H3/ POLB91H3](#)

Breadth Requirements: Society and its Institutions (3)

POL413H1 - Global Environmental Politics

Hours: 24S

Examines the challenges faced by humanity in dealing with global environmental problems and the politics of addressing them. Focuses on both the underlying factors that shape the politics of global environmental problems such as scientific uncertainty, North-South conflict, and globalization and explores attempts at the governance of specific environmental issues.

Prerequisite: [POL208H1/ POL208Y1/ POL209H5/ POLB80H3](#)

Exclusion: [POLD89H3](#)

Breadth Requirements: Society and its Institutions (3)

POL416H1 - Civil War and Counterinsurgency

Hours: 24S

This course overviews the origins, dynamics, and outcomes of civil war and counterinsurgency. It provides a theoretical, empirical, and methodological foundation for understanding these forms of conflict, the logic of their violence, and the determinants of their duration and outcomes.

Prerequisite: [POL208H1/ POL208Y1/ POL209H5/ POL210H5/ POLB80H3](#)

Exclusion: [POL487H1](#) (Topics in International Politics II: Civil War and Counterinsurgency), offered in Winter 2018 and Winter 2019; [POL487H5](#) (Topics in International Relations: Insurgents, Criminals, Warlords: Understanding Violent Non-State Actors in International Politics), offered in Fall 2020

Recommended Preparation: Familiarity with quantitative methods is strongly recommended (example: [POL222H1](#), [POL232H1](#), [POL419H1](#))

Breadth Requirements: Society and its Institutions (3)

POL417H1 - Politics of North-South Relations

Previous Course Number: POL417Y1

Hours: 24S

This course explores the complex relations between the developed world and Global South in historical and contemporary settings. It engages critical scholarship within International Politics and International Political Economy to examine salient factors in North-South relations such as dependency and interdependence, trade, development aid, global governance architecture, and South-South cooperation.

Prerequisite: [POL201H1/ POL201Y1/ POL208H1/ POL208Y1/ POL209H5/ POLB80H3/ POLB90H3](#)

Exclusion: [POL417Y1](#)

Breadth Requirements: Society and its Institutions (3)

POL418H1 - Human Security and Intra-state Conflicts in the Global South

Previous Course Number: POL417Y1

Hours: 24S

What are the underlying causes of insecurity and instability, and what factors support or undermine attainment of durable peace after episodes of violent conflict in the Global South? This course explores these questions by focusing on identity-based conflicts and through comparative case studies and theoretical perspectives from political science and related disciplines.

Prerequisite: POL201H1/ POL201Y1/ POL208H1/ POL208Y1/ POL209H5/ POLB80H3/ POLB90H3

Exclusion: POL417Y1

Breadth Requirements: Society and its Institutions (3)

JPR419H1 - Secularism and Religion

Previous Course Number: RLG419H1

Hours: 24S

Themes considered include what notion of religion is necessary for secular governance, and how secularity relates to particular discourses of citizenship and practices of political rule. Case studies include the effects of colonial rule on religious life; Jewish emancipation in Europe; and religious freedom in France and North America.

(Given by the Departments of Political Science and Religion)

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA/ RLG courses at the 200+ level. Students who do not meet the prerequisites are encouraged to contact the instructor.

Exclusion: RLG419H1

Breadth Requirements: Society and its Institutions (3)

POL419H1 - Quantitative Methods and Data Analysis

Hours: 24S

Covers advanced level treatment of quantitative empirical research methods in political science. The emphasis is given to theoretical foundations, various research designs, and statistical methods of "causal inference." Students will also be exposed to prominent applications of these methods and learn how to use statistical software to apply these methods in data analysis.

Prerequisite: POL232H1/0.5 credit in STA at the 200+ level

Breadth Requirements: Society and its Institutions (3)

POL421H1 - Maimonides and His Modern Interpreters

Hours: 24S

The course offers an introduction to the seminal work of Jewish philosophy, 'The Guide of the Perplexed' by Moses Maimonides. We will delve into some of the basic themes of Jewish philosophical theology and religion as they are treated by Maimonides.

Prerequisite: POL200Y1/ POL200Y5/ (POLC70H3, POLC71H3)

Exclusion: RLG433H1

Breadth Requirements: Thought, Belief and Behaviour (2)

POL425H1 - State and Development in Historical Perspective

Hours: 24S

What is the state's role in economic development? What caused the Industrial Revolution, and why was Britain at its forefront? This course examines a variety of competing, and complementary, explanations for historical (and present-day) variation in patterns of economic development, focusing on the state's role in each.

Prerequisite: POL222H1/ POL352H1

Exclusion: POL443H1 (Topic: *State and Development in Historical Perspective*) offered in Winter 2023 and 2024.

Recommended Preparation: Some preparation in qualitative or quantitative research methods (or both).

Breadth Requirements: Society and its Institutions (3)

POL426H1 - Democracy and Dictatorship

Hours: 24S

The course provides an in-depth introduction to theories of the origins of democracy and dictatorship. In the first part of the course, we examine and compare theories rooted in economic development, voluntarism, institutional design, and historical institutionalism. The latter half of the course applies these different approaches to debates over the origins of Nazi rule in Germany in the 1930s, military dictatorship in Chile in the 1970s, and non-democratic rule in contemporary Russia.

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL428H1 - Federalism and Diversity in Canada (and Beyond)

Hours: 24S

Canada as a key case in comparative federalism studies, with a particular focus on the management of diversity and conflict. Federal theory is applied to analyze federal institutions and dynamics in Canada (and other cases). Topics include the distribution of power, the judiciary's role and group representation.

Prerequisite: POL214H1, POL316H1

Recommended Preparation: POL224H1

Breadth Requirements: Society and its Institutions (3)

POL431H1 - Dynamics of Political Change in Contemporary China

Previous Course Number: POL431Y1

Hours: 24S

This course will explore processes of political change in post-Mao China through an examination of selected systemic challenges and regime responses. The primary focus will be on processes of institutional development and decay as the Party-State regime evolves from hard to soft authoritarianism.

Exclusion: POL431Y1

Breadth Requirements: Society and its Institutions (3)

POL432H1 - Feminist Political Thought

Hours: 24S

Feminist theory offers basic challenges to the foundations of modern political and legal thought. It suggests a different conception of human nature and a different model of epistemology and of appropriate forms of argument about the traditional issues of legal and political theory: justice, power, equality and freedom. Introduction to the foundations of feminist theory, an analysis of its implications for traditional liberal theory, and an application of feminist theory to law.

Prerequisite: POL200Y1/ POL200Y5/ (POLC70H3, POLC71H3)

Breadth Requirements: Thought, Belief and Behaviour (2)

POL433H1 - Topics in United States Government and Politics

Hours: 24S

Selected issues and topics in U.S. politics. Vary from year to year.

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL435H1 - Business and Politics: Power in a Global World

Hours: 24S

This seminar course examines the political power of business from an international and comparative perspective. Topics include the role of public authority in governing business behavior, the formation of business interests, corporate lobbying, structural and ideational business power, corporate social responsibility, and transnational private governance.

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL438H1 - Topics in Comparative Politics I

Hours: 24S

Selected issues in comparative politics. Vary from year to year.

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL439H1 - The Canadian Welfare State in Comparative Perspective

Hours: 24S

The course examines contemporary Canadian social policy in light of the scholarly literature on the welfare states of advanced industrial societies. Topics include the variety of welfare state regimes in rich nations, and their comparative performance in reducing inequality and poverty, in labour market and economic outcomes, and in addressing the specific circumstances of women. Specific

Canadian policy fields examined will include pensions, social assistance, child care and health insurance.

Prerequisite: POL214H1/ POL214Y1/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3

Breadth Requirements: Society and its Institutions (3)

POL441H1 - Topics in Asian Politics

Hours: 24S

Selected issues in Asian politics. Content in any given year depends on instructor.

Prerequisite: POL201H1/ POL201Y1/ POLB90H3/ POLB91H3

Breadth Requirements: Society and its Institutions (3)

POL442H1 - Topics in Latin American Politics

Hours: 24S

This course explores Latin American protests and social movements since the late 20th century to the present. It focuses on subaltern mobilizing experiences shaping the region from the ground up. Course content emphasizes collective actors' political agency and intellectual work, as well as intersections of coloniality, race, gender, and class.

Prerequisite: (POL201H1/ POL201Y1/ POLB90H3/ POLB91H3), (POL305H1/ POL305Y1)

Breadth Requirements: Society and its Institutions (3)

POL443H1 - Topics in Comparative Politics II

Hours: 24S

Selected issues in comparative politics. Vary from year to year.

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL444H1 - Land and Indigenous Politics

Hours: 24S

This seminar examines Indigenous politics through land. We explore transnational Indigenous politics by focusing on global struggles over land. The course considers how Indigenous land-based movements, connected across territories and oceans, are constituted through and cultivate relations between Indigenous peoples and their social ecologies and more-than-human existents.

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Exclusion: POL443H1 (Topics in Comparative Politics II: *Land and Indigenous Politics*) taken in Winter 2020 (LEC0101), Winter 2021 (LEC0101), Winter 2022 (LEC0101), Winter 2023 (LEC0101)

Recommended Preparation: POL195H1 (First-Year Foundation Seminar – *Settler Colonialism and Enduring Indigeneity*), JPI201H1, INS201Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

POL445H1 - Politics of Growth in Developing Countries

Hours: 24S

The course examines the politics of economic growth in developing countries. It focuses on political factors to analyze why some developing countries have done better in terms of growth than others. Conceptual frameworks of growth and related themes such as regime type, institutions, inequality and ethnicity will be addressed.

Prerequisite: POL201H1/ POL201Y1/ POLB90H3/ POLB91H3

Breadth Requirements: Society and its Institutions (3)

POL447H1 - Political Economy of Development

Hours: 24S

The course explores the rise, evolution, and performance of the dominant neoliberal approach to development and poverty reduction. It also assesses the feasibility and efficacy of alternative development strategies. Case studies are drawn from Latin America, Asia, and Africa.

Prerequisite: POL201H1/ POL201Y1/ POL218H1/ POL301H1/ POL301Y1/ POL305H1/ POL305Y1/ POL309H1/ POL325H1/ POLB90H3/ POLB91H3

Recommended Preparation: Introductory economics is helpful

Breadth Requirements: Society and its Institutions (3)

JPA453H1 - Authoritarianism in Comparative Perspective

Previous Course Number: POL453H1
Hours: 24S

This course examines the politics of authoritarianism in theory and practice. It covers major theories in authoritarian politics, ranging from selectorate theory, authoritarian institutions, impact of institutions on political outcome, ways of measuring authoritarian state power, democracy and development, to social movement and state repression in authoritarian regime, and political transitions. On empirical application, we will draw on cases from around the world, with some emphasis on Asian authoritarian states.

(Given by the Department of Political Science and the Contemporary Asian Studies Program)

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA/ CAS courses
Exclusion: POL453H1
Breadth Requirements: Society and its Institutions (3)

POL454H1 - Innovation and Knowledge Transfer in City Regions

Hours: 24S

This course surveys two of the key themes related to the process of innovation in a knowledge-based economy: the process by which new knowledge is generated and effectively transferred to those organizations with the potential to commercialize it; and secondly, the paradoxical relationship between knowledge creation and proximity in a modern global economy.

(Offered in alternate years)

Prerequisite: CSC300H1/ GGR431H1/ HPS202H1/ HPS431H1/ POL218Y5/a POL 300 or 400 level course in comparative politics. See the Department's website <http://politics.utoronto.ca/undergraduate/courses/fallwinter-timetable/> for POL courses by area group/ POL409H1/ SOC356Y1
Breadth Requirements: Society and its Institutions (3)

POL455H1 - Twentieth Century Ukraine

Hours: 24S

This course will focus on the evolution of Ukraine as a state from its failed struggle for independence after World War I, its existence as a Soviet Ukrainian state, to its full

independence after the collapse of Communist rule and the Soviet Union.

Prerequisite: Completion of 9.0 credits
Exclusion: JHP454Y1
Recommended Preparation: A course in modern European, East European or Russian history or politics.
Breadth Requirements: Society and its Institutions (3)

JPF455H1 - Conceptualizing Cities in a Global Context

Previous Course Number: JPF455Y1
Hours: 24S

With over half of the population on this planet being urban, the significance of improving our understanding of cities in a global context has never been greater. This course is designed to improve awareness of cities as approached by different disciplines and in different international contexts.

(Given by the Department of Political Science and the Faculty of Architecture, Landscape, and Design)

Prerequisite: POL201H1/ POL201Y1/ POLB90H3/ POLB91H3
Exclusion: JPF455Y1
Breadth Requirements: Society and its Institutions (3)

POL456H1 - Global Summit Governance and Diplomacy

Previous Course Number: POL456Y1
Hours: 24S

The development, participants and performance of global summit governance, focusing on the Group of Seven and Group of Twenty as "soft law" plurilateral summit institutions and their relationship with the "hard law" multilateral organizations of the United Nations and Bretton Woods bodies in a globalizing world.

Prerequisite: POL208H1/ POL208Y1/ POL209H5/ POLB80H3
Exclusion: POL456Y1
Recommended Preparation: POL340H1/ POL341H1/ POL361H1/ POL362H1
Breadth Requirements: Society and its Institutions (3)

JPF456H1 - Global Cities – Core Issues and Challenges

Previous Course Number: JPF455Y1
Hours: 24S

The core issues confronting city leaders across the globe are examined in comparative perspective and in a context of shifting global agendas. The study of cities of Latin America, Asia and Africa, are brought together in comparative context with the study of cities of Europe and North America.

(Given by the Department of Political Science and the Faculty of Architecture, Landscape, and Design)

Prerequisite: POL201H1/ POL201Y1/ POLB90H3/ POLB91H3

Exclusion: JPF455Y1

Recommended Preparation: JPF455H1

Breadth Requirements: Society and its Institutions (3)

JPR458H1 - Postsecular Political Thought: Religion, Radicalism and the Limits of Liberalism

Hours: 24S

The course will examine debates on postsecularism and religion's public, political role as articulated by political thinkers such as Jurgen Habermas, by focusing on politically radical or revolutionary challenges to liberalism in the 20th and 21st century, especially from the postcolonial world, whose theoretical arguments are grounded upon or draw their inspiration from religious traditions, doctrines and practices.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA /RLG courses at the 300+ level

Breadth Requirements: Thought, Belief and Behaviour (2)

JPR459H1 - Fanaticism: A Political History

Hours: 24S

This seminar in theory will explore the modern history of the concept of 'fanaticism' and its role in the development of political modernity. A focus on the concept of the "fanatic" (and its cognates) from the perspective of its various uses in political and religious thought from the Early Modern period through the Enlightenment and up to the present day, provides a fascinating opportunity for a critical review of the secular, rationalist, and scientific

assumptions underwriting modern political forms and concepts, especially those of liberal democracy. At the same time, the course will offer critical insight into the ways in which religious and political differences among colonial "others" were, and continue to be, central to the elaboration of Western theoretical discourse on fanaticism and extremism as forms of "political pathology". *(Given by the Departments of Political Science and Religion)*

Prerequisite: (2.0 credits in Political Theory and/or Philosophy including 1.0 credit at the 300-level) or (0.5 credit in Method and Theory in the Study of Religion and 1.0 credit at the 300-level in the Study of Religion)

Breadth Requirements: Thought, Belief and Behaviour (2)

POL459H1 - Military Instruments and Foreign Policy

Previous Course Number: POL459Y1
Hours: 24S

This seminar assesses the efficacy of the military instrument of foreign policy through the prism of various case studies that range geographically and historically. It examines the motivations and policy formulations of key states. The case studies focus on power projection, limited war, nuclear threats, and war termination strategies.

Prerequisite: POL208H1/ POL208Y1/ POL209H5/ POLB80H3

Exclusion: POL459Y1

Breadth Requirements: Society and its Institutions (3)

POL466H1 - Topics in International Politics III

Hours: 24S

For advanced students of international relations. Various topics are taken up each year, the content of which depends on the instructor.

Prerequisite: POL208H1/ POL208Y1/ POL209H5/ POLB80H3

Breadth Requirements: Society and its Institutions (3)

POL467H1 - The Politics of Immigration and Multiculturalism in Canada

Hours: 24S

This course examines Canadian immigration and multiculturalism from theoretical, empirical and applied perspectives. It includes a discussion of normative foundations, an analysis of the components of the policy framework, and an assessment of the impact of immigration and multiculturalism on other aspects of social, cultural and political life.

Prerequisite: POL214H1/ POL214Y1/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3
Breadth Requirements: Society and its Institutions (3)

POL469H1 - Ethics and International Relations

Hours: 24S

The course aims to explore the requirements of justice and fairness in international affairs. It is common to theorize international relations in terms of interests and power. But even the most cursory look at what important actors actually do in their international interactions reveals that they use normative language all the time. This has not gone unnoticed, with investigations of ethics in the international arena multiplying in recent years. Drawing on readings from political philosophy, legal theory, and normative international relations theory, the course will take up practical ethical dilemmas encountered in world affairs. The main focus of the course will be on institutions. Examples will be drawn from the issue areas of trade, health, and the environment, among others.

Prerequisite: POL200Y1/ POL200Y5/ POL208H1/ POL208Y1/ POL209H5/ POLB80H3/ POLC70H3, POLC71H3
Breadth Requirements: Thought, Belief and Behaviour (2)

POL470H1 - Media & Politics

Hours: 24S

Technological change transformed the way politics is reported by journalists. This course introduces students to debates at the intersection of media and politics in Western democracies. Topics include the changing information environment, framing and priming effects, agenda setting, media bias, and the rise of social and partisan media, and misinformation.

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses, POL222H1/ POL242Y5/ POLC78H3
Exclusion: POL410H1 (Topics in Comparative Politics III - Media and Politics) Taken in Fall 2021 (LEC0101), Fall 2022 (LEC0101), POL369Y5
Recommended Preparation: POL232H1
Breadth Requirements: Society and its Institutions (3)

POL474H1 - Politics and Policy Analysis

Hours: 24S

Major theories of public policy-making and related approaches to policy analysis are examined from the perspective of political science. Key contributions to the theoretical literature pertaining to leading models are read and discussed. Models of public policy-making are successively applied to analysis of cases of Canadian and comparative policy development.

Prerequisite: POL214H1/ POL214Y1/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3
Breadth Requirements: Society and its Institutions (3)

POL475H1 - Postmodern and Contemporary Thought

Previous Course Number: POL475Y1
Hours: 24S

Study of postmodern and contemporary themes. Beginning with political economy, then the effect of technology on politics, a discussion of Western colonialism leading to a revised concept of social relations. Social contract theory will be analyzed through a natural contract as well as examination of individualism and the posthuman.

Exclusion: POL475Y1
Recommended Preparation: POL200Y1 and POL320Y1
Breadth Requirements: Thought, Belief and Behaviour (2)

POL476H1 - Topics in Public Policy

Hours: 24S

The course is designed for advanced students with serious interests in the public policy field. Specific topics covered will vary from year to year.

Prerequisite: POL214H1/ POL214Y1/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3
Breadth Requirements: Society and its Institutions (3)

POL477H1 - Advanced Topics in International Political Economy

Hours: 24S

The course is designed for advanced students with serious interests in the subfield of international political economy. Specific topics covered will vary, but all involve the deep interplay between politics and economics in the contemporary world.

Prerequisite: POL208H1/ POL208Y1/ POL209H5/ POLB80H3/ POLB81H3; ECO101H1, ECO102H1
Breadth Requirements: Society and its Institutions (3)

POL478H1 - Topics in Methods

Hours: 24S

Various topics are taken up each year, the content of which depends on the instructor.

Prerequisite: POL232H1

POL479H1 - Topics in Middle East Politics

Hours: 24S

This class undertakes an in-depth examination of various themes relating to politics and society in the Middle East and North Africa. Past topics include "Contesting Authoritarianisms in the Middle East" and Protest Politics in the Middle East."

Prerequisite: POL201H1/ POL201Y1/ POLB90H3/ POLB91H3
Breadth Requirements: Society and its Institutions (3)

POL480H1 - Studies in Comparative Political Theory

Hours: 24S

We will critically examine what "comparative political theory" is and what it would mean to genuinely "deparochialize" political theory, that is, to de-center Euro-American thought in the study of political ideas. The course neither presupposes background knowledge of any non-Western thought tradition, nor does it aspire to provide students with sufficient knowledge of particular traditions to ground serious scholarly contributions to this emerging field. To provide that background would require a series of specialized courses in, e.g., East Asian political thought, Indian political thought, Latin American political thought, Indigenous political thought, African political thought, and so on. Rather, the course aims at sharpening our understanding of (a) the purposes served by "deparochializing" political theory; and (b) the various methods by which we can seek to serve these purposes.

Prerequisite: POL200Y1/ POL200Y5/(POLC70H3, POLC71H3)
Breadth Requirements: Thought, Belief and Behaviour (2)

POL484H1 - Topics in Political Thought I

Hours: 24S

A seminar on a central problem in political thought. It proceeds through the reading of a small number of major texts. Content in any given year depends on instructor.

Prerequisite: POL200Y1/ POL200Y5/(POLC70H3, POLC71H3)
Breadth Requirements: Thought, Belief and Behaviour (2)

POL485H1 - Topics in Political Thought II

Hours: 24S

A seminar on a central problem in political thought. It proceeds through the reading of a small number of major texts. Content in any given year depends on instructor.

Prerequisite: POL200Y1/ POL200Y5/(POLC70H3, POLC71H3)
Breadth Requirements: Thought, Belief and Behaviour (2)

POL486H1 - Topics in International Politics I

Hours: 24S

For advanced students of international relations. Various topics are taken up each year, the content of which depends on the instructor.

Prerequisite: POL208H1/ POL208Y1/ POL209H5/ POLB80H3
Breadth Requirements: Society and its Institutions (3)

POL487H1 - Topics in International Politics II

Hours: 24S

For advanced students of international relations. Various topics are taken up each year, the content of which depends on the instructor.

Prerequisite: POL208H1/ POL208Y1/ POL209H5/ POLB80H3

Breadth Requirements: Society and its Institutions (3)

POL488H1 - Topics in African Politics I

Hours: 24S

In depth examination of specific themes relating to contemporary African politics. Content in any given year depends on instructor.

Prerequisite: POL201H1/ POL201Y1/ POLB90H3/ POLB91H3

Breadth Requirements: Society and its Institutions (3)

POL489H1 - Topics in African Politics II

Hours: 24S

In depth examination of specific themes relating to contemporary African politics. Content in any given year depends on instructor.

Prerequisite: POL201H1/ POL201Y1/ POLB90H3/ POLB91H3

Breadth Requirements: Society and its Institutions (3)

POL490H1 - Topics in Canadian Politics I

Hours: 24S

Examines in depth enduring and emerging issues in Canadian politics. Content in any given year depends on instructor.

Prerequisite: POL214H1/ POL214Y1/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3; 1.0 other POL/ JPI credit in Canadian politics. See the Department's website <http://politics.utoronto.ca/undergraduate/courses/fallwinter-timetable/> for POL courses by area group.

Breadth Requirements: Society and its Institutions (3)

POL491H1 - Topics in Canadian Politics II

Hours: 24S

Examines in depth enduring and emerging issues in Canadian politics. Content in any given year depends on instructor.

Prerequisite: POL214H1/ POL214Y1/ POL215H5/ POL216H5/ POL224H1/ POL224Y1/ POLB50Y3; 1.0 other POL/ JPI credit in Canadian politics. See the Department's website <http://politics.utoronto.ca/undergraduate/courses/fallwinter-timetable/> for POL courses by area group.

Breadth Requirements: Society and its Institutions (3)

POL492H1 - Topics in Comparative Politics IV

Hours: 24S

Selected issues in comparative politics. Vary from year to year.

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL493H1 - Topics in Politics I

Hours: 24S

An in-depth examination of a "big issue" in Political Science. Content in any given year depends on instructor.

Prerequisite: 14.0 credits including 3.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL494H1 - Topics in Politics II

Hours: 36S

An in-depth examination of a "big issue" in Political Science. Content in any given year depends on instructor.

Prerequisite: 14.0 credits including 3.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses

Breadth Requirements: Society and its Institutions (3)

POL496H1 - Independent Studies

Open only when a Political Science full-time faculty member is willing and available to supervise. Students must find an appropriate supervisor in the Department of Political Science and obtain the approval of the Director of Undergraduate Studies before enrolling. Obtain details

and an application form from the Department Undergraduate Office. Application forms can also be downloaded from the Department's website at www.politics.utoronto.ca.

Not eligible for CR/NCR option.

Exclusion: [POL495Y1](#)

Exclusion: [POL495Y1](#)/ [POL496H1](#)/ [POL497H1](#) (taken in the same session)

POL497H1 - Independent Studies

Open only when a Political Science full-time faculty member is willing and available to supervise. Students must find an appropriate supervisor in the Department of Political Science and obtain the approval of the Director of Undergraduate Studies before enrolling. Obtain details and an application form from the Department Undergraduate Office. Application forms can also be downloaded from the Department's website at www.politics.utoronto.ca.

Not eligible for CR/NCR option.

Exclusion: [POL495Y1](#)

POL498H1 - Intensive Course

Content in any given year depends on instructor. Intensive courses are offered by distinguished visitors from around the world. Students in their 4th year are strongly encouraged to take advantage of this unique opportunity to study with one or more outstanding visiting international scholars that the Department brings from time to time. The intensive course usually runs for approximately 3-4 weeks.

POL499Y1 - Senior Thesis and Thesis Seminar

A 40 to 60-page (15,000 to 20,000 word) research paper (75% of the final mark) written under the supervision of a political science faculty member and a companion thesis seminar (25% of final mark). The seminar provides a forum for students to periodically present and discuss their on-going research and to examine issues and approaches related to the structure, organization and presentation of the thesis.

Not eligible for CR/NCR option.

Prerequisite: 14.0 credits, 3.0 GPA in Political Science courses, supervisor's approval, an approved thesis proposal.

Portuguese

Faculty List

Professor and Chair

A.T. Pérez-Leroux, MA, PhD

Assistant Professors

A. Rato, MA, PhD

C. Sá Carvalho, MA, PhD

Lecturer (Instituto Camões)

L. Graça

Professors Emeriti

R. Sternberg, MA, PhD (SM)

J.R. Webster, MA, PhD, FRSC (SM)

M. Marujo, MA, PhD

Introduction

Overview

Spoken by over 260 million people, Portuguese is the official language of countries in Europe, Africa, Asia, and the Americas – making it a vibrant language that embodies diverse cultures, traditions and lifestyles all across the world. In the Canadian job market, command of Portuguese is a definite advantage: Toronto has one of the largest Portuguese-speaking diasporas, and Canada has strong cultural, political, and business ties with Brazil. Did you know that twenty percent of all residents of the Western Hemisphere are Brazilians? One out of every five people living in the Americas - North, Central, South - speaks Portuguese as their native language.

The Portuguese program at the University of Toronto offers an integrated curriculum, combining courses in language, linguistics, literature, film, and culture. Our approach to teaching and learning is student centered and we offer cultural, immersion and experiential learning opportunities. Courses in the studies of the Lusophone world provide a diverse and in-depth examination of the Portuguese language and its cultures.

Courses in the literary, cultural, and filmic traditions of Portuguese-speaking countries such as Brazil, Angola, Mozambique, and Portugal (among others) open the opportunity for students to study Portuguese language in context, that is, connected to the cultural and political movements that constantly revitalize the language. Reflecting the diversity of cultures within Portuguese-speaking communities in Europe, Africa, and the Americas, these courses shed light on colonial histories,

diverse cultural identities, social justice struggles, and environmental questions through a global perspective.

Portuguese also opens the door to the study of the Romance language family. The Department offers students the opportunity to advance their language skills through the systematic reflection on the language structure. Through a variety of courses with a theoretical and experimental focus in linguistics, students acquire basic skills that can be transferred to teaching or research programs. Through collaboration with other language and linguistics programs, students are provided with opportunities and training to conduct research in linguistics with a focus on the Portuguese language. In addition, the Department encourages students to consider completing part of their course work at a university in Portugal or Brazil.

What can I do with a degree in Portuguese?

Plenty! Proficiency in Portuguese and knowledge of the issues concerning the Lusophone world can deepen personal connections and enhance your travel experiences. Canada's multicultural landscape and its trade relationships with Portuguese-speaking areas can provide many job opportunities.

The skills and knowledge developed in the Portuguese program either prepare you directly or lay the groundwork for careers in fields such as:

- media, journalism, marketing, public relations
- domestic government services and NGOs; foreign services and foreign affairs specialist; international development; political aid; policy analyst
- commerce, finances, tourism, and hospitality
- post-graduate studies and academic careers; cultural work
- editing, publishing, translation, education
- library and information sciences

For further information, please contact us in the Department of Spanish and Portuguese, Victoria College, Room 208.

- Website: <https://www.spanport.utoronto.ca/>
- Telephone: (416) 813-4080
- Email: spanport@chass.utoronto.ca
- Associate Chair, Undergraduate Studies: (416) 813-4082
 - Email: spanport.undergraduate@utoronto.ca

The Department offer Specialist, Major and Minor programs in Portuguese, as well as a language citation.

Portuguese Programs

Portuguese Specialist (Arts Program) - ASSPE0338

In addition to a full range of courses in language, Portuguese Studies at the University of Toronto offers courses in culture, literature and linguistics. The courses in the literatures and cultures of the Portuguese-speaking countries include the study of the most significant masterpieces written by Lusophone writers and a survey of the major historical and cultural trends and issues of these countries. The courses in linguistics range from an introduction to Portuguese linguistics to courses on language varieties and dialects in the Portuguese-speaking world, sociolinguistics, phonetics, and second language acquisition. Together with extracurricular activities, the program provides the tools to learn, know and understand the vast and rich Portuguese-speaking world in a dynamic and interactive way.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10.0 credits, including at least 1.0 400-level credit)

Students complete 10.0 credits, including:

1. [PRT258H1](#)
 2. [PRT420H1](#)/ [PRT423H1](#)
 3. 9.0 additional PRT credits
- Students with previous knowledge of Portuguese can start taking language courses at the 200- or 300-level, depending on their placement test results, and after consultation with the department. Students who misrepresent their previous knowledge of the language commit a serious academic integrity offense. The recommended sequences of language courses are as follows.

For students with no previous knowledge of Portuguese:

([PRT101H1](#), [PRT102H1](#))/ [PRT100Y1](#),
([PRT201H1](#), [PRT202H1](#))/ [PRT220Y1](#),
([PRT301H1](#), [PRT302H1](#))/ [PRT320Y1](#),
[PRT420H1](#)

For students who are heritage speakers of Portuguese:

[PRT205H1](#)/ [PRT219H1](#),
([PRT301H1](#), [PRT302H1](#))/ [PRT320Y1](#),
[PRT420H1](#)

For students who have a strong background in Spanish language:

[PRT120H1](#),
([PRT201H1](#), [PRT202H1](#))/ [PRT220Y1](#),
([PRT301H1](#), [PRT302H1](#))/ [PRT320Y1](#),
[PRT420H1](#)

- Of these 9.0 credits, up to 2.0 credits at the 200+ level may be taken from the following cognate departmental or college offerings: EUR, GGR, HIS, LAS, POL, SPA.

A complete list of eligible courses is available at the departmental website or by contacting the Associate Chair of Undergraduate Studies.

Portuguese Major (Arts Program) - ASMAJ0338

In addition to a full range of courses in language, Portuguese Studies at the University of Toronto offers courses in culture, literature and linguistics. The courses in the literatures and cultures of the Portuguese-speaking countries include the study of the most significant masterpieces written by Lusophone writers and a survey of the major historical and cultural trends and issues of these countries. The courses in linguistics range from an introduction to Portuguese linguistics to courses on language varieties and dialects in the Portuguese-speaking world, sociolinguistics, phonetics, and second language acquisition. Together with extracurricular activities, the program provides the tools to learn, know and understand the vast and rich Portuguese-speaking world in a dynamic and interactive way.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits)

Students complete 7.0 credits, including:

1. [PRT258H1](#)
2. 6.5 additional PRT credits, of which up to 1.0 credit may be taken from: SPA courses at any level, LAS courses at any level, or cognate course offerings in EUR, GGR, HIS, POL. Please, consult with Associate Chair of Undergraduate Studies or our website for an updated list of courses pre-approved for program credit.

- Note that PRT420H1 is required for students who began their Portuguese studies with 200+ level PRT language courses
- Students with previous knowledge of Portuguese can start taking language courses at the 200- or 300-level, depending on their placement test results, and after consultation with the department. Students who misrepresent their previous knowledge of the language commit a serious academic integrity offense. The recommended sequences of language courses are as follows.

For students with no previous knowledge of Portuguese:

(PRT101H1, PRT102H1)/ PRT100Y1,
(PRT201H1, PRT202H1)/ PRT220Y1,
(PRT301H1, PRT302H1)/ PRT320Y1,
PRT420H1 (not required)

For students with previous knowledge of Portuguese:

(PRT201H1, PRT202H1)/ PRT220Y1,
(PRT301H1, PRT302H1)/ PRT320Y1,
PRT420H1 (required)

For students who are heritage speakers of Portuguese:

PRT205H1,
(PRT301H1, PRT302H1)/ PRT320Y1,
PRT420H1 (required)

For students with native or advanced knowledge of Spanish:

PRT120H1,
(PRT201H1, PRT202H1)/ PRT220Y1,
(PRT301H1, PRT302H1)/ PRT320Y1,
PRT420H1 (not required)

Portuguese Minor (Arts Program) - ASMIN0338

In addition to a full range of courses in language, Portuguese Studies at the University of Toronto offers courses in culture, literature and linguistics. The courses in the literatures and cultures of the Portuguese-speaking countries include the study of the most significant masterpieces written by Lusophone writers and a survey of the major historical and cultural trends and issues of these countries. The courses in linguistics range from an introduction to Portuguese linguistics to courses on language varieties and dialects in the Portuguese-speaking world, sociolinguistics, phonetics, and second language acquisition. Together with extracurricular activities, the program provides the tools to learn, know and understand the vast and rich Portuguese-speaking world in a dynamic and interactive way.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300+ level)

Students complete 4.0 credits, of which up to 1.0 credit may be taken in SPA/LAS courses.

- Note that PRT420H1 is required for students who began their Portuguese studies with 200+ level PRT language courses
- Students with previous knowledge of Portuguese can start taking language courses at the 200- or 300-level, depending on their placement test results, and after consultation with the department. Students who misrepresent their previous knowledge of the language commit a serious academic integrity offense. The recommended sequences of language courses are as follows.

For students with no previous knowledge of Portuguese:

(PRT101H1, PRT102H1)/ PRT100Y1,
(PRT201H1, PRT202H1)/ PRT220Y1,
(PRT301H1, PRT302H1)/ PRT320Y1,
PRT420H1 (not required)

For students with previous knowledge of Portuguese:

(PRT201H1, PRT202H1)/ PRT220Y1,
(PRT301H1, PRT302H1)/ PRT320Y1,
PRT420H1 (required)

For students who are heritage speakers of Portuguese:

PRT205H1,
(PRT301H1, PRT302H1)/ PRT320Y1,
PRT420H1 (required)

For students with native or advanced knowledge of Spanish:

PRT120H1,
(PRT201H1, PRT202H1)/ PRT220Y1,
(PRT301H1, PRT302H1)/ PRT320Y1,
PRT420H1 (not required)

Faculty of Arts & Science Language Citation

The Department of Spanish and Portuguese participates in the Faculty of Arts and Science's Language Citation initiative for Portuguese.

To obtain a Language Citation in Portuguese, students will complete two full credits of the language sequence courses at the 200-level or higher, with a minimum of B- in each one of the courses to be considered.

Students should note that, as explained in this Calendar, the Language Citation is not equivalent to an academic program and that enrolment in a program is not necessary to earn the recognition bestowed by the Citation.

For more details on eligible courses and the process to request the citation, please visit our website:
<https://www.spanport.utoronto.ca/undergraduate/portuguese/citation>

Portuguese: see also European Affairs, Latin American Studies

Regarding Portuguese Courses

1. The Department reserves the right to place students in the language course best suited to their linguistic preparation. Please contact the Associate Chair, Undergraduate if you would like to take a placement test to help you determine your level of linguistic competence in Portuguese.

Portuguese Courses

PRT101H1 - Portuguese for Beginners I

Previous Course Number: PRT100Y1
Hours: 48L

Introductory course to Portuguese for students with no previous knowledge of this language or advanced proficiency in Spanish. Students develop basic knowledge and reading, listening, speaking and writing skills, within a communicative approach. Students are introduced to cultural aspects of the Portuguese-speaking world. Taught in English and Portuguese.

Exclusion: PRT100Y1, PRT102H1, PRT120Y1, PRT120H1, PRT201H1, PRT202H1, PRT205H1, PRT219Y1, PRT220Y1, PRT301H1, PRT302H1, PRT320Y1, PRT420H1, PRT420Y1

Breadth Requirements: Creative and Cultural Representations (1)

2. Misrepresentation by a student of their previous knowledge of Portuguese will be considered an academic integrity offense and handled accordingly.
3. Students who misrepresent their knowledge and enroll in a lower level course will be removed from such course.
4. Fluent speakers of Portuguese who have received a high school or a higher level of education in the Portuguese language, and who in the department's assessment does not need further training in language, may enroll immediately in any linguistics, literature or culture course.
5. All courses are taught in Portuguese unless otherwise specified.

Students who are unsure of what is the most appropriate placement for them in the language sequence should contact the Associate Chair, Undergraduate Studies to receive personal assessment and recommendation for proper placement.

Students should contact the Undergraduate Coordinator early on in the course of their university career to receive advice on how to proceed with their studies and to thus assure that they can receive their degree by the time of planned graduation. For further information, please contact us in the Department of Spanish and Portuguese, Victoria College, Room 208, visit the department's website, email spanport@chass.utoronto.ca, or call (416) 813-4080.

PRT102H1 - Portuguese for Beginners II

Previous Course Number: PRT100Y1
Hours: 48L

A continuation of introductory Portuguese for non-native speakers. Students will expand their basic knowledge of cultural aspects of the Portuguese-speaking world and their reading, listening, speaking and writing skills in the target language. Taught in English and Portuguese.

Prerequisite: PRT101H1 or placement test

Exclusion: PRT100Y1, PRT120Y1, PRT120H1, PRT201H1, PRT202H1, PRT205H1, PRT219Y1, PRT220Y1, PRT301H1, PRT302H1, PRT320Y1, PRT420H1, PRT420Y1

Breadth Requirements: Creative and Cultural Representations (1)

PRT120H1 - Portuguese for Spanish Speakers

Previous Course Number: PRT120Y1
Hours: 36L

Introduction to the Portuguese language for speakers of Spanish. Development of listening, speaking, reading, and writing skills with an emphasis on communication, and an overview of basic grammatical structures and building of vocabulary. Presentation of cultural aspects of the Portuguese-speaking world.

Prerequisite: Native or advanced knowledge of Spanish, SPA320Y1/ SPA302H1 for non-native speakers of Spanish; no previous knowledge of Portuguese.

Exclusion: PRT100Y1, PRT120Y1, PRT201H1, PRT202H1, PRT205H1, PRT219Y1, PRT219H1, PRT220Y1, PRT301H1, PRT302H1, PRT320Y1, PRT420Y1, PRT420H1

Breadth Requirements: Creative and Cultural Representations (1)

PRT201H1 - Intermediate Portuguese I

Previous Course Number: PRT220Y1

Hours: 36L

This course expands the linguistic repertoire of learners beyond basic structures by offering a review of grammar at an intermediate level. Introduction to authentic cultural materials from the Portuguese-speaking world with practice designed to build vocabulary, and to improve oral and written expression. Taught in Portuguese with occasional English.

Prerequisite: PRT100Y1/ PRT102H1/ PRT120Y1/ PRT120H1 or placement test

Exclusion: PRT202H1, PRT205H1, PRT219Y1, PRT219H1, PRT220Y1, PRT301H1, PRT302H1, PRT320Y1, PRT420Y1, PRT420H1

Breadth Requirements: Creative and Cultural Representations (1)

PRT202H1 - Intermediate Portuguese II

Previous Course Number: PRT220Y1

Hours: 36L

This course continues to expand the linguistic repertoire of learners to a high intermediate level, expanding the use of authentic cultural materials from the Portuguese-speaking world and promoting increased development of vocabulary, and oral and written expression. Taught in Portuguese with occasional English.

Prerequisite: PRT201H1 or placement test

Exclusion: PRT205H1, PRT219Y1, PRT219H1, PRT220Y1, PRT301H1, PRT302H1, PRT320Y1, PRT420Y1, PRT420H1

Breadth Requirements: Creative and Cultural Representations (1)

PRT205H1 - Portuguese for Heritage Speakers

Previous Course Number: PRT219Y1, PRT219H1

Hours: 36L

For students who have had exposure to spoken Portuguese in an informal context (living in a Portuguese speaking country, or in a Portuguese speaking family) but little to no exposure to written Portuguese. Besides reviewing English/Portuguese spelling differences, written and spoken registers of Portuguese, and basic aspects of the grammatical system, the course (1) provides students with the essential understanding of Portuguese grammatical system; (2) builds their vocabulary; and (3) trains them to express themselves formally in both spoken and written Portuguese. Taught in English and Portuguese.

Prerequisite: Basic to relatively high ability to speak and understand Portuguese, limited or no formal education in Portuguese, or placement test.

Exclusion: PRT100Y1, PRT101H1, PRT102H1, PRT120Y1, PRT120H1, PRT201H1, PRT202H1, PRT219Y1, PRT219H1, PRT220Y1, PRT301H1, PRT302H1, PRT320Y1, PRT420H1, PRT420Y1

Breadth Requirements: Creative and Cultural Representations (1)

PRT221H1 - Portuguese Pronunciation

Hours: 24L

Overview of Portuguese speech sounds (articulation and transcription). The course provides perception and pronunciation training of Portuguese vowels, consonants, stress, intonation, and co-articulation phenomena in connected speech. The main focus will be on European Portuguese and Brazilian Portuguese, but differences between these two and other Portuguese accents will be discussed as well.

Prerequisite: PRT102H1/ PRT100Y1 or Portuguese placement test.

Corequisite: PRT120H1/ PRT201H1

Exclusion: PRT219Y1, PRT219H1, PRT205H1, native speakers of Portuguese

Breadth Requirements: Thought, Belief and Behaviour (2)

Course Experience: University-Based Experience

PRT250H1 - Introduction to the Cultures of the Portuguese-Speaking World

Hours: 24L

A survey of historical and cultural trends in the Portuguese-speaking world, from colonial past to the present. (Offered in alternate years; taught in English)

Breadth Requirements: Creative and Cultural Representations (1)

PRT258H1 - Introduction to the Literatures of the Portuguese-Speaking World

Previous Course Number: PRT258Y1
Hours: 24L

Students expand their reading, writing, and critical skills through the study of a representative selection of short stories and poetry from Portugal, Brazil, and Lusophone Africa. Required for a program degree. Taught in Portuguese.

Prerequisite: PRT120H1/ PRT201H1 or placement test
Exclusion: PRT258Y1
Recommended Preparation: PRT205H1/ PRT219Y1/ PRT219H1
Breadth Requirements: Creative and Cultural Representations (1)

PRT299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PRT301H1 - Advanced Portuguese I

Previous Course Number: PRT320Y1
Hours: 36L

Intensive practice in written and oral Portuguese for the student with advanced proficiency in the language. Selective review of grammar with emphasis on complex language structures. Taught in Portuguese.

Prerequisite: PRT202H1/ PRT205H1/ PRT219Y1/ PRT219H1/ PRT220Y1 or placement test
Exclusion: PRT302H1, PRT320Y1, PRT420Y1, PRT420H1
Breadth Requirements: Creative and Cultural Representations (1)

PRT302H1 - Advanced Portuguese II

Previous Course Number: PRT320Y1
Hours: 36L

This course continues to improve written and oral proficiency for the student with advanced proficiency in Portuguese, offering a selective review of grammar with emphasis on the complex sentence. Taught in Portuguese.

Prerequisite: PRT301H1/ PRT220Y1 or placement test
Exclusion: PRT320Y1, PRT420Y1, PRT420H1
Breadth Requirements: Creative and Cultural Representations (1)

PRT322H1 - Introduction to Portuguese Linguistics

Hours: 24L

An overview of theoretical and methodological aspects of Portuguese linguistics: phonology, morphology, syntax, and semantics. Analysis of structural similarities and differences between the two worldwide main Portuguese varieties - Brazilian and European Portuguese.

Prerequisite: PRT120Y1/ PRT120H1/ PRT202H1/ PRT205H1/ PRT219H1/ PRT219Y1/ PRT220Y1 or Portuguese placement test.
Corequisite: PRT301H1
Recommended Preparation: PRT302H1/ PRT320Y1
Breadth Requirements: Thought, Belief and Behaviour (2)

PRT323H1 - Business Portuguese

Hours: 36L

An advanced level business Portuguese course covering topics on international relations, politics, legal and culture. This course aims to enhance written and oral expressions in Portuguese through content focusing on the language that is used in official, diplomatic, and financial situations. Through the analysis of case studies, newspapers and videos, students will be introduced to the business cultures and intercultural communication of the Portuguese-speaking world. Taught in Portuguese.

Prerequisite: PRT120Y1/ PRT120H1/ PRT202H1/ PRT205H1/ PRT220Y1 or Portuguese placement test
Corequisite: PRT301H1/ PRT302H1
Breadth Requirements: Creative and Cultural Representations (1)

PRT342H1 - History of Portuguese Language

Hours: 24L

This interdisciplinary course provides an overview of the evolution of Portuguese language from 15th century to the present. It discusses linguistic change by analyzing texts from a variety of genres in different historical periods and geographical contexts. Taught in Portuguese. (Offered every three years)

Prerequisite: PRT202H1/ PRT205H1/ PRT120Y1/ PRT219Y1/ PRT219H1/ PRT220Y1 or Portuguese placement test.

Corequisite: PRT301H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PRT350H1 - Portuguese Language and Society

Hours: 24L

Explores how factors such as ethnicity, gender, social class and age affect the use of Portuguese language and determine its characteristics. The course overviews mostly the aspects of Brazilian and European Portuguese. (Offered in alternate years.)

Prerequisite: PRT202H1/ PRT205H1/ PRT219Y1/ PRT219H1/ PRT220Y1/ PRT120Y1 or Portuguese placement test.

Corequisite: PRT301H1

Recommended Preparation: PRT302H1/ PRT320Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

PRT356H1 - Topics in Portuguese Linguistics

Hours: 24S

A course on a specific topic in Portuguese linguistics, designed for advanced students. Course content and instructor are established on a yearly basis.

Prerequisite: PRT202H1/ PRT205H1/ PRT219Y1/ PRT219H1/ PRT220Y1/ PRT120Y1 or Portuguese placement test.

Corequisite: PRT302H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PRT358H1 - Topics in Portuguese Studies

Hours: 24L

Exploration of cultural topics relevant to the Portuguese-speaking world. Examples include: Brazilian Popular Music, Soccer and Society, Luso-Afro-Brazilian Environmental Narratives, and Lusophone Women Writers. Students can enroll in this course multiple times, as long as the topic of the course is different. For any questions, please reach out to the Associate Chairs of Undergraduate Studies or Portuguese Studies. Taught in Portuguese.

Prerequisite: PRT258H1, PRT120H1/ PRT205H1/ PRT219Y1/ PRT219H1 or Portuguese placement test

Breadth Requirements: Creative and Cultural Representations (1)

PRT364H1 - Portuguese Language in the World

Hours: 24L

An overview of the varieties of Portuguese spoken in four continents (Europe, South America, Africa, Asia) and a discussion of the structural similarities and differences between the two most extensively studied varieties: European and Brazilian Portuguese. Analysis of linguistic variation in contemporary Portuguese in terms of phonetics, syntax and lexicon. (Offered in alternate years.)

Prerequisite: PRT202H1/ PRT205H1/ PRT219Y1/ PRT219H1/ PRT120Y1/ PRT220Y1 or Portuguese placement test.

Recommended Preparation: PRT302H1/ PRT320Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

PRT368H1 - Brazilian Indigenous Languages

Hours: 24L

Overview of linguistic diversity of Brazil, current practices in the maintenance and revitalization of languages and strategies for empowering indigenous peoples. Linguistic properties of Brazilian languages; introduction to language description by working on small data sets; discussion of the influence of Brazilian indigenous languages on Brazilian Portuguese. Taught in English. (Offered in alternate years.)

Prerequisite: Any 200-level course

Breadth Requirements: Thought, Belief and Behaviour (2)

PRT375H1 - Contemporary Brazilian Cinema

Previous Course Number: PRT275H1

Hours: 36L/12T

This course covers aesthetic, cultural, and social aspects of contemporary Brazilian cinema. The course examines both works of fiction and documentaries from emerging voices as well as world renowned filmmakers, spanning from Cinema Novo to the present. Topics include: music and urban culture, violence, inequality, environmental justice, and gender and sexuality. Lecture time is divided between film screening and class discussion held in English. Students choose tutorials in Portuguese (necessary for this course to be considered towards credit in Portuguese programs) or English.

Exclusion: PRT275H1

Recommended Preparation: PRT201H1/ PRT205H1

Breadth Requirements: Creative and Cultural Representations (1)

PRT398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

PRT398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

PRT399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PRT420H1 - Advanced Academic Portuguese

Hours: 24L

A study of advanced aspects of formal Portuguese through reading and extensive writing practice, with an aim at developing skills necessary for academic and professional writing and oral presentations.

Prerequisite: PRT302H1/ PRT320Y1 or Portuguese placement test

Exclusion: PRT420Y1

Breadth Requirements: Creative and Cultural Representations (1)

PRT423H1 - Community Engaged Learning of Portuguese in Toronto and the GTA

Hours: 24L/12P

This course combines advanced language instruction with the richness and complexity of the Lusophone work experience in Toronto, promoting Community Engaged Learning (CEL) as a vehicle for greater linguistic fluency and cultural understanding. Students are placed with community organizations within the Greater Toronto Area and volunteer for 2 hours per week, furthering their language skills and their cultural knowledge. Class work focuses on developing students' communication skills through exposure to a range of topics, from financial, legal, medical to educational, and to an extensive variety of styles and registers in Portuguese. Therefore, students meet real needs in the community by applying knowledge from their Portuguese courses. Taught in Portuguese.

Prerequisite: PRT302H1/ PRT320Y1 or Portuguese placement test

Recommended Preparation: PRT420H1

Breadth Requirements: Society and its Institutions (3)

Course Experience: Partnership-Based Experience

PRT458H1 - The Lusophone Short Story

Hours: 24S

Overview of the short story in the particular context of Portuguese-speaking countries. Examination of theories of the genre as they relate to short stories of Portuguese-speaking writers. (Offered in alternate years)

Prerequisite: PRT258H1

Recommended Preparation: PRT320Y1, PRT420H1

Breadth Requirements: Creative and Cultural Representations (1)

PRT470H1 - Acquisition of Portuguese as a Second Language

Hours: 24S

Invites critical reflection about the acquisition of Portuguese as a second language. Analyzes phonological, morphosyntactic, semantic and lexical aspects in the linguistic performance of bilingual speakers, and of learners of Portuguese as a second language. (Offered in alternate years)

Prerequisite: PRT202H1/ PRT205H1/ PRT219Y1/ PRT219H1/ PRT220Y1 or Portuguese placement test.

Corequisite: PRT301H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PRT490H1 - Independent Study

Individual study with a member of staff on a topic of common interest including readings, discussion and written assignments. Not eligible for CR/NCR option.

Prerequisite: PRT320Y1 and written approval of the Undergraduate Coordinator

Psychology

Faculty List

University Professors Emeriti

F.I.M. Craik, PhD, FRSC
M. Moscovitch, PhD

Professors Emeriti

J.L. Freedman, PhD
J.E. Grusec, PhD
L. Hasher, PhD
C.C. Helwig, PhD
C.P. Herman, PhD
J.A. Hogan, PhD
R.S. Lockhart, PhD
J.B. Peterson, PhD
S.J. Shettleworth, PhD
I. Spence, PhD
G.C. Walters, PhD
J.S. Yeomans, PhD

Professor and Chair of the Department

P. Lockwood, PhD

Professor and Graduate Chair of the Department

E. Page-Gould, PhD

Associate Professor and Associate Chair (Undergraduate Studies)

K. Duncan, PhD

Director (Graduate Studies)

E. Johnson, PhD

Professors

M. Barese, PhD
P. Bloom, PhD
A. Chasteen, PhD
W. Cunningham, PhD
G. Einstein, PhD
S. Ferber, PhD
G. MacDonald, PhD
J.E. Plaks, PhD
J.W. Pratt, PhD
M.R. Ralph, PhD
N. Rule, PhD
J. Sommerville, PhD
K. Takehara, PhD

Associate Professors

D. Bernhardt-Walther, PhD
L. Corbit, PhD
K. Duncan, PhD
A. Finn, PhD

J. Kim, PhD
M. Mack, PhD
R. Neel, PhD
M. Schlichting, PhD
C. Starmans, PhD
R.W. Tafari, PhD

Assistant Professors

S. Appolloni, PhD
A. Barnett, PhD
F. Cheung, PhD
C. Mekik, PhD
J.Y. Park, PhD

Associate Professors, Teaching Stream

D. Dolderman, PhD
M. Metz, PhD
J. Vervaeke, PhD
A. Waggoner Denton, PhD
S. Wood, PhD

Assistant Professors, Teaching Stream

W.S. Ryan, PhD
P. Sanchez, PhD
A. Sharples, PhD
M. Skorska, PhD
P. Whissell, PhD
O. Yim, PhD

Adjunct Lecturers

M. Babineau, PhD, PsyD

Sessional Lecturers

C. Burton, PhD
T. Grieder, PhD
G. Rowe, PhD

Introduction

Psychology is the branch of science that focuses on the behaviour of human beings and animals. Our courses span the various areas of psychology and introduce students to the methods used in psychological research. The basic tools of a research psychologist include experimentation in the laboratory and field, naturalistic observation, and the use of statistical methods in interpreting data.

Our faculty have highly diversified interests which are reflected in the number and variety of our undergraduate course offerings. These include courses in cognitive neuroscience, cognitive psychology, computational neuroscience, developmental psychology, human and animal learning, perception, personality psychology, physiological psychology, and social psychology.

For more information, please consult our website (<https://www.psych.utoronto.ca/>). For course/program questions or academic advising, please contact our Undergraduate Administrator in Sidney Smith Hall, Room

4014 (416-978-3407 / psy.undergrad@utoronto.ca) or our Undergraduate Assistant in Sidney Smith Hall, Room 4027 (416-978-5168 / psy.ug-assistant@utoronto.ca).

Regarding Psychology Programs

Psychology programs at the St. George Campus are limited enrolment, which means there are a limited number of spaces to offer students. Please note that just meeting the minimum admission requirements does not guarantee one a spot in any of our programs and, in most cases, students will need to exceed them to be competitive because of the volume of applications in comparison to the number of program spaces available.

Entry into all Psychology programs requires Grade 12 Calculus and Grade 12 Biology. Please note that these two requirements are mandatory and will not be waived. We will also accept these two courses taken at the college and/or university level. A passing grade in them is all that is required for entry into our programs, as we do not use these grades when calculating your average for admission. Please visit this webpage for more details: <https://psych.utoronto.ca/prospective-students/application-information#calculus-accordion-1>

Combined Degree Program (CDP) offered with Victoria College and Ontario Institute for Studies in Education (OISE)

- Combined Degree Program in HBA/HBSc and Master of Teaching (MT)

Students enrolled in the Minor in Education and Society and Major in Psychology may apply for this Combined Degree Program. For details about application and program requirements, see the [Combined Degree Programs section](#).

Psychology Programs

Psychology Research Specialist - Thesis (Science Program) - ASSPE1958

This program is designed for students who have demonstrated a particular interest and aptitude for psychology research and who want to complete a thesis.

Enrolment Requirements:

Students apply at the end of their second year and begin the program in their third. Interested students should ideally apply for a PSY Major or Specialist (Non-thesis) at

the end of their first year. All students accepted into or considering the Research Specialist program should enrol into a 300-level PSY lab course in their third year. ***In addition to applying via ACORN, students must also send in a supplementary application directly to the department via the Research Specialist Online Application by the same deadlines for Subject POST enrolment on ACORN.***

Admission to the program is based on strong academic performance and expressed interest in research. Prior research experience is not necessary for admission to the program, but most successful applicants have previous experience in one or more psychology laboratories. The Research Specialist is a limited program and, therefore, enrolment is restricted to no more than 15 students per year. This is a very demanding program, requiring the balance of extensive in-person research with challenging coursework. Therefore, strong applications provide evidence of exceptional time management skills and the ability to work independently. Eligibility is highly competitive and based on the following criteria (please note that meeting the following minimum requirements does not guarantee admission):

- Gr. 12 Calculus and Biology (passing grades)
- Completion of at least 9.0 credits
- PSY100H1 with a minimum final grade of 80%
- PSY201H1 (or one of ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA248H1/ STA288H1) **and** PSY202H1 (or one of ECO220Y1/ STA221H1/ SOC252H1/ SOC300H1) **and** PSY203H1 with at least an average of 75% across the three of them
- At least 2.0 credits from PSY210H1, PSY220H1, PSY230H1, PSY240H1, PSY260H1, PSY270H1, PSY280H1, PSY290H1, with at least a 78% average across all four of them

How to apply:

1. Request program code **ASSPE1958** on ACORN by the deadline for each round of enrolment.
2. Fill out the online supplemental application by the same date: <https://www.psych.utoronto.ca/research-specialist-program-online-application>.
3. Email the Undergraduate Administrator your up-to-date CV and academic history from ACORN in PDF format once all grades from the previous semester have been finalized to psy.undergrad@utoronto.ca.
4. If invited into the program on ACORN, accept the invitation by the deadline.

Notes:

1. In lieu of PSY100H1, we will also accept:

- PSY100Y5 from UTM, or
- PSYA01H3 **and** PSYA02H3 (both) from UTSC.

However, we will not accept AP or IB Psychology for this requirement.

2. For students who are missing Gr. 12 Calculus and/or Biology, please see the following link for more information on these requirements and how they can be fulfilled:
<https://psych.utoronto.ca/prospective-students/application-information#calculus-accordion-1>

3. We will accept equivalent/exclusion statistics courses from UTM/UTSC in lieu of PSY201H1 and PSY202H1. Please contact the Undergraduate Administrator to verify if your stats courses qualify.

Completion Requirements:

(10.0 credits):

1. PSY100H1 (**NOTE:** We will also accept PSY100Y5 from UTM, or both of PSYA01H3 and PSYA02H3 together from UTSC, in place of PSY100H1 for this requirement)
2. PSY201H1 (or one of ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1)
3. PSY202H1 (or one of ECO220Y1/ SOC252H1/ STA221H1)
4. PSY203H1
5. 1.0 credit (from Cluster A) PSY210H1, PSY220H1, PSY230H1, PSY240H1
6. 1.0 credit (from Cluster B) PSY260H1, PSY270H1, PSY280H1, PSY290H1 (**NOTE:** HMB200H1 cannot be used in place of PSY290H1)
7. 0.5 credit in PSY at the 300/400-level from Group 1 in Cluster A
8. 0.5 credit in PSY at the 300/400-level from Group 1 in Cluster B
9. 1.0 credit in PSY at the 300/400-level from Group 1 (any of Clusters A, B, and C)
10. One lab course (0.5 credit), and no more, taken from the following: PSY319H1, PSY329H1, PSY339H1, PSY349H1, PSY359H1, PSY369H1, PSY379H1, PSY389H1
11. PSY309H1
12. PSY409H1
13. PSY400Y1
14. 1.5 credits from Group 1 (Clusters A, B, and C) and/or Group 2, at any level

Notes:

1. No more than 2.0 credits from PSY306Y0, PSY299H1, PSY299Y1, PSY399H1, PSY399Y1, PSY405H1, PSY406H1, PSY405Y1, and PSY406Y1 can be used for program requirements.

2. We will accept equivalent/exclusion statistics courses from UTM/UTSC in lieu of PSY201H1. Please contact the

Undergraduate Administrator to verify if your stats course qualifies.

3. These are all individual requirements and cannot overlap or be used twice within the Research Specialist.

Group 1 - Psychology Courses

Cluster A - Development, Social, Personality, and Psychopathology and Clinical Science

JLP315H1, PSY194H1, PSY195H1, PSY197H1, PSY210H1, PSY220H1, PSY230H1, PSY240H1, PSY311H1, PSY312H1, PSY313H1, PSY316H1, PSY319H1, PSY320H1, PSY321H1, PSY322H1, PSY323H1, PSY324H1, PSY326H1, PSY328H1, PSY329H1, PSY330H1, PSY331H1, PSY332H1, PSY333H1, PSY336H1, PSY337H1, PSY339H1, PSY341H1, PSY342H1, PSY343H1, PSY349H1, PSY410H1, PSY414H1, PSY417H1, PSY420H1, PSY421H1, PSY422H1, PSY424H1, PSY425H1, PSY426H1, PSY427H1, PSY428H1, PSY430H1, PSY435H1, PSY440H1, PSY450H1, PSY455H1

Cluster B - Learning, Perception, Cognition, and the Brain

JLP374H1, JLP471H1, PSY196H1, PSY198H1, PSY199H1, PSY260H1, PSY270H1, PSY280H1, PSY290H1, PSY312H1, PSY316H1, PSY359H1, PSY360H1, PSY362H1, PSY369H1, PSY370H1, PSY371H1, PSY372H1, PSY378H1, PSY379H1, PSY380H1, PSY389H1, PSY390H1, PSY395H1, PSY396H1, PSY397H1, PSY450H1, PSY455H1, PSY460H1, PSY470H1, PSY471H1, PSY473H1, PSY475H1, PSY480H1, PSY490H1, PSY492H1, PSY493H1, PSY494H1, PSY495H1, PSY496H1, PSY497H1

Cluster C - Methods and Applications

PSY201H1, PSY202H1, PSY203H1, PSY204H1, PSY299H1, PSY299Y1, PSY305H1, PSY306Y0, PSY307H1, PSY308H1, PSY399H1, PSY399Y1, PSY400Y1, PSY402H1, PSY403H1, PSY404H1, PSY405H1, PSY405Y1, PSY406H1, PSY406Y1, PSY407H1, PSY408H1, PSY409H1, PSY422H1, PSY455H1

Group 2 - Related Courses

ANT442H1, BIO120H1, BIO130H1, BIO220H1, BIO270H1, BIO271H1, BPM200H1, BPM232H1, BPM330H1, BPM332H1, BPM333H1, BPM335H1, BPM336H1, BPM337H1, BPM338H1, BPM339H1, BPM432H1, BPM433H1, BPM438H1, BPM499H1, CJH332H1, COG250Y1, COG260H1, COG341H1, COG342H1, COG343H1, CRE345H1, CRI365H1, CRI431H1, ECO423H1, EDS261H1, EEB313H1, ENG384Y1, HIS489H1, HMB200H1, HMB300H1,

HMB310H1, HMB320H1, HMB420H1, HMB440H1,
HMB460H1, HMB473H1, HPS110H1, HPS120H1,
HPS200H1, HPS300H1, HPS347H1, IRE260H1,
JFP450H1, JHA410H1, JLS472H1, JLS473H1,
LIN101H1, LIN102H1, LIN200H1, LIN402H1, NEW302Y1,
NEW303H1, NFS489H1, PCL200H1, PCL475H1,
PCL476H1, PHL240H1, PHL243H1, PHL244H1,
PHL319H1, PHL340H1, PHL342H1, PHL358H1,
PHL383H1, PSL201Y1, PSL300H1, PSL440Y1,
RLG106H1, RLG211H1, RLG301H1, RLG380H1,
RLG390H1, RLG421H1, RSM260H1, RSM353H1,
SOC213H1, SOC363H1, SOC412H1, VIC106H1,
VIC206H1, VIC278H1, WGS372H1, WRR307H1

Psychology Specialist (Science Program) - ASSPE1160

You should consider pursuing the Specialist Program in Psychology if you want a greater concentration in Psychology than provided by the Major Program. Please note that having a Specialist is not required in order to be admitted to a graduate program in Psychology later on.

Enrolment Requirements:

This is a limited enrolment program. Note there are different options depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

Variable Minimum Grade or Minimum Grade Average

Meeting the minimum admission requirements does not guarantee entrance to the program. Students must prepare to achieve a higher grade/grade average than the posted minimums listed below, which will depend each year on both available program spots and the number of competitive applicants. The following courses must be completed:

For students who have completed 4.0 to 8.5 credits:

- PSY100H1 (80%)*
- Gr. 12 Calculus (passing grade)
- Gr. 12 Biology (passing grade)

To ensure that students admitted to the program will be successful, applicants with a final grade lower than 80% in required courses will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

For students who have completed 9.0 or more credits:

- PSY100H1 (passing grade)
- Gr. 12 Calculus (passing grade)
- Gr. 12 Biology (passing grade)
- PSY201H1 (or ECO220Y1/ EEB225H1/ GGR270H1/

IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1), **and** PSY202H1 (or ECO220Y1/ SOC252H1/ STA221H1), **and** 1.0 credits in PSY from PSY210H1, PSY220H1, PSY230H1, PSY240H1, PSY260H1, PSY270H1, PSY280H1, PSY290H1, with a grade average of 75%* across all four courses. If more than 1.0 200-level PSY credits have been completed, the two with the highest grades will be used.

*In past admission cycles, the average grade cut-off for the Specialist program ranged from approximately **82-83%**.

Notes:

1. In lieu of PSY100H1, we will also accept:

- PSY100Y5 from UTM, or
- PSYA01H3 **and** PSYA02H3 (both) from UTSC.

However, we will not accept AP or IB Psychology for this requirement.

2. For students who are missing Gr. 12 Calculus and/or Biology, please see the following link for more information on these requirements and how they can be fulfilled:
<https://psych.utoronto.ca/prospective-students/application-information#calculus-accordion-1>

3. We will accept equivalent/exclusion statistics courses from UTM/UTSC in lieu of PSY201H1 and PSY202H1. Please contact the Undergraduate Administrator to verify if your stats courses qualify.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Psychology Specialist program in the Summer after Year 2 and must have completed PSY201H1; plus, any two of the following: PSY210H1, PSY220H1, PSY230H1, PSY240H1, PSY260H1, PSY270H1, PSY280H1, PSY290H1.

Completion Requirements:

(10.0 credits):

1. PSY100H1 (**NOTE:** We will also accept PSY100Y5 from UTM, or both of PSYA01H3 **and** PSYA02H3 together from UTSC, in place of PSY100H1 for this requirement)

2. PSY201H1 (or one of ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1)
3. PSY202H1 (or one of ECO220Y1/ SOC252H1/ STA221H1)
4. PSY203H1
5. 1.0 credit (from Cluster A) PSY210H1, PSY220H1, PSY230H1, PSY240H1
6. 1.0 credit (from Cluster B) PSY260H1, PSY270H1, PSY280H1, PSY290H1 (**NOTE:** HMB200H1 cannot be used in place of PSY290H1)
7. 0.5 credit in PSY at the 300/400-level from Group 1 in Cluster A
8. 0.5 credit in PSY at the 300/400-level from Group 1 in Cluster B
9. 1.5 credits in PSY at the 300/400-level from Group 1 (any of Clusters A, B, and C)
10. One lab course (0.5 credit), and no more, taken from the following: PSY319H1, PSY329H1, PSY339H1, PSY349H1, PSY359H1, PSY369H1, PSY379H1, PSY389H1
11. Two seminar courses (1.0 credit), and no more, taken from the following: JLP471H1, PSY402H1/ PSY403H1/ PSY404H1, PSY410H1, PSY420H1, PSY430H1, PSY440H1, PSY460H1, PSY470H1, PSY471H1, PSY480H1, PSY490H1, PSY497H1
12. 2.0 credits from Group 1 (Clusters A, B, and C) and/or Group 2, at any level

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

1. No more than 3.0 credits from PSY306Y0, PSY299H1, PSY299Y1, PSY399H1, PSY399Y1, PSY405H1, PSY406H1, PSY405Y1, and PSY406Y1 can be used for program requirements.
2. We will accept equivalent/exclusion statistics courses from UTM/UTSC in lieu of PSY201H1 and PSY202H1. Please contact the Undergraduate Administrator to verify if your stats courses qualify.
3. These are all individual requirements and cannot overlap or be used twice *within* the Specialist.

Group 1 - Psychology Courses

Cluster A - Development, Social, Personality, and Psychopathology and Clinical Science

JLP315H1, PSY194H1, PSY195H1, PSY197H1, PSY210H1, PSY220H1, PSY230H1, PSY240H1, PSY311H1, PSY312H1, PSY313H1, PSY316H1, PSY319H1, PSY320H1, PSY321H1, PSY322H1, PSY323H1, PSY324H1, PSY326H1, PSY328H1, PSY329H1, PSY330H1, PSY331H1, PSY332H1, PSY333H1, PSY336H1, PSY337H1, PSY339H1,

PSY341H1, PSY342H1, PSY343H1, PSY349H1, PSY410H1, PSY414H1, PSY417H1, PSY420H1, PSY421H1, PSY422H1, PSY424H1, PSY425H1, PSY426H1, PSY427H1, PSY428H1, PSY430H1, PSY434H1, PSY435H1, PSY440H1, PSY450H1, PSY455H1

Cluster B - Learning, Perception, Cognition, and the Brain

JLP374H1, JLP471H1, PSY196H1, PSY198H1, PSY199H1, PSY260H1, PSY270H1, PSY280H1, PSY290H1, PSY312H1, PSY316H1, PSY359H1, PSY360H1, PSY362H1, PSY369H1, PSY370H1, PSY371H1, PSY372H1, PSY378H1, PSY379H1, PSY380H1, PSY389H1, PSY390H1, PSY395H1, PSY396H1, PSY397H1, PSY450H1, PSY455H1, PSY460H1, PSY470H1, PSY471H1, PSY473H1, PSY475H1, PSY480H1, PSY490H1, PSY492H1, PSY493H1, PSY494H1, PSY495H1, PSY496H1, PSY497H1

Cluster C - Methods and Applications

PSY201H1, PSY202H1, PSY203H1, PSY204H1, PSY299H1, PSY299Y1, PSY305H1, PSY306Y0, PSY307H1, PSY308H1, PSY399H1, PSY399Y1, PSY400Y1, PSY402H1, PSY403H1, PSY404H1, PSY405H1, PSY405Y1, PSY406H1, PSY406Y1, PSY407H1, PSY408H1, PSY409H1, PSY422H1, PSY455H1

Group 2 - Related Courses

ANT442H1, BIO120H1, BIO130H1, BIO220H1, BIO270H1, BIO271H1, BPM200H1, BPM232H1, BPM330H1, BPM332H1, BPM333H1, BPM335H1, BPM336H1, BPM337H1, BPM338H1, BPM339H1, BPM432H1, BPM433H1, BPM438H1, BPM499H1, CJH332H1, COG250Y1, COG260H1, COG341H1, COG342H1, COG343H1, CRE345H1, CRI365H1, CRI431H1, ECO423H1, EDS261H1, EEB313H1, ENG384Y1, HIS489H1, HMB200H1, HMB300H1, HMB310H1, HMB320H1, HMB420H1, HMB440H1, HMB460H1, HMB473H1, HPS110H1, HPS120H1, HPS200H1, HPS300H1, HPS347H1, IRE260H1, JFP450H1, JHA410H1, JLS472H1, JLS473H1, LIN101H1, LIN102H1, LIN200H1, LIN402H1, NEW302Y1, NEW303H1, NFS489H1, PCL200H1, PCL475H1, PCL476H1, PHL240H1, PHL243H1, PHL244H1, PHL319H1, PHL340H1, PHL342H1, PHL358H1, PHL383H1, PSL201Y1, PSL300H1, PSL440Y1, RLG106H1, RLG211H1, RLG301H1, RLG380H1, RLG390H1, RLG421H1, RSM260H1, RSM353H1, SOC213H1, SOC363H1, SOC412H1, VIC106H1, VIC206H1, VIC278H1, WGS372H1, WRR307H1

Psychology Major (Science Program) - ASMAJ1160

You should consider pursuing the Major Program in Psychology if you want to concentrate in Psychology together with another discipline.

Enrolment Requirements:

This is a limited enrolment program. Note there are different options depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

Variable Minimum Grade or Minimum Grade Average
Meeting the minimum admission requirements does not guarantee entrance to the program. Students must prepare to achieve a higher grade/grade average than the posted minimums listed below, which will depend each year on both available program spots and the number of competitive applicants. The following courses must be completed:

For students who have completed 4.0 to 8.5 credits:

- PSY100H1 (75%)*
- Gr. 12 Calculus (passing grade)
- Gr. 12 Biology (passing grade)

For students who have completed 9.0 credits or more:

- PSY100H1 (passing grade)
- Gr. 12 Calculus (passing grade)
- Gr. 12 Biology (passing grade)
- PSY201H1 (or ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1), **and** 1.0 200-level PSY credits from PSY210H1, PSY220H1, PSY230H1, PSY240H1, PSY260H1, PSY270H1, PSY280H1, PSY290H1, with a grade average of 73%* across all three courses. If more than 1.0 200-level PSY credits have been completed, the two with the highest grades will be used.

*In past admission cycles, the average grade cut-off for the PSY Major program ranged from approximately **78-79%**.

Notes:

1. In lieu of PSY100H1, we will also accept:

- PSY100Y5 from UTM, or
- PSYA01H3 **and** PSYA02H3 (both) from UTSC.

However, we will not accept AP or IB Psychology for this requirement.

2. For students who are missing Gr. 12 Calculus and/or Biology, please see the following link for more information on these requirements and how they can be fulfilled:
<https://psych.utoronto.ca/prospective-students/application-information#calculus-accordion-1>

3. We will accept equivalent/exclusion statistics courses from UTM/UTSC in lieu of PSY201H1. Please contact the Undergraduate Administrator to verify if your stats course qualifies.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2025). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Psychology Major program in the Summer after Year 2 and must have completed PSY201H1; plus, any two of the following: PSY210H1, PSY220H1, PSY230H1, PSY240H1, PSY260H1, PSY270H1, PSY280H1, PSY290H1.

Completion Requirements:

(7.0 credits):

1. PSY100H1 (**NOTE:** We will also accept PSY100Y5 from UTM, or both of PSYA01H3 **and** PSYA02H3 together from UTSC)
2. PSY201H1 (or one of ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1)
3. 1.0 credit (from Cluster A) PSY210H1, PSY220H1, PSY230H1, PSY240H1
4. 1.0 credit (from Cluster B) PSY260H1, PSY270H1, PSY280H1, PSY290H1 (**NOTE:** HMB200H1 cannot be used in place of PSY290H1)
5. 0.5 credit in PSY at the 300/400-level from Group 1 in Cluster A
6. 0.5 credit in PSY at the 300/400-level from Group 1 in Cluster B
7. 1.0 credit in PSY at the 300/400-level from Group 1 (any Cluster)
8. 0.5 credit in PSY at the 400-level from Group 1 (any Cluster)
9. 1.5 credits from Group 1 (any Cluster) and/or Group 2, at any level

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

1. No more than 2.0 credits from PSY306Y0, PSY299H1, PSY299Y1, PSY399H1, PSY399Y1, PSY405H1, PSY406H1, PSY405Y1, and PSY406Y1 can be used for program requirements.

2. We will accept equivalent/exclusion statistics courses from UTM/UTSC in lieu of PSY201H1. Please contact the Undergraduate Administrator to verify if your stats course qualifies.

3. These are all individual requirements and cannot overlap or be used twice *within* the Major.

Group 1 - Psychology Courses

Cluster A - Development, Social, Personality, and Psychopathology and Clinical Science

JLP315H1, PSY194H1, PSY195H1, PSY197H1, PSY210H1, PSY220H1, PSY230H1, PSY240H1, PSY311H1, PSY312H1, PSY313H1, PSY316H1, PSY319H1, PSY320H1, PSY321H1, PSY322H1, PSY323H1, PSY324H1, PSY326H1, PSY328H1, PSY329H1, PSY330H1, PSY331H1, PSY332H1, PSY333H1, PSY336H1, PSY337H1, PSY339H1, PSY341H1, PSY342H1, PSY343H1, PSY349H1, PSY410H1, PSY414H1, PSY417H1, PSY420H1, PSY421H1, PSY422H1, PSY424H1, PSY425H1, PSY426H1, PSY427H1, PSY428H1, PSY430H1, PSY435H1, PSY440H1, PSY450H1, PSY455H1

Cluster B - Learning, Perception, Cognition, and the Brain

JLP374H1, JLP471H1, PSY196H1, PSY198H1, PSY199H1, PSY260H1, PSY270H1, PSY280H1, PSY290H1, PSY312H1, PSY316H1, PSY359H1, PSY360H1, PSY362H1, PSY369H1, PSY370H1, PSY371H1, PSY372H1, PSY378H1, PSY379H1, PSY380H1, PSY389H1, PSY390H1, PSY395H1, PSY396H1, PSY397H1, PSY450H1, PSY455H1, PSY460H1, PSY470H1, PSY471H1, PSY473H1, PSY475H1, PSY480H1, PSY490H1, PSY492H1, PSY493H1, PSY494H1, PSY495H1, PSY496H1, PSY497H1

Cluster C - Methods and Applications

PSY201H1, PSY202H1, PSY203H1, PSY204H1, PSY299H1, PSY299Y1, PSY305H1, PSY306Y0, PSY307H1, PSY308H1, PSY399H1, PSY399Y1, PSY400Y1, PSY402H1, PSY403H1, PSY404H1, PSY405H1, PSY405Y1, PSY406H1, PSY406Y1, PSY407H1, PSY408H1, PSY409H1, PSY422H1, PSY455H1

Group 2 - Related Courses

ANT442H1, BIO120H1, BIO130H1, BIO220H1, BIO270H1, BIO271H1, BPM200H1, BPM232H1,

BPM330H1, BPM332H1, BPM333H1, BPM335H1, BPM336H1, BPM337H1, BPM338H1, BPM339H1, BPM432H1, BPM433H1, BPM438H1, BPM499H1, CJH332H1, COG250Y1, COG260H1, COG341H1, COG342H1, COG343H1, CRE345H1, CRI365H1, CRI431H1, ECO423H1, EDS261H1, EEB313H1, ENG384Y1, HIS489H1, HMB200H1, HMB300H1, HMB310H1, HMB320H1, HMB420H1, HMB440H1, HMB460H1, HMB473H1, HPS110H1, HPS120H1, HPS200H1, HPS300H1, HPS347H1, IRE260H1, JFP450H1, JHA410H1, JLS472H1, JLS473H1, LIN101H1, LIN102H1, LIN200H1, LIN402H1, NEW302Y1, NEW303H1, NFS489H1, PCL200H1, PCL475H1, PCL476H1, PHL240H1, PHL243H1, PHL244H1, PHL319H1, PHL340H1, PHL342H1, PHL358H1, PHL383H1, PSL201Y1, PSL300H1, PSL440Y1, RLG106H1, RLG211H1, RLG301H1, RLG380H1, RLG390H1, RLG421H1, RSM260H1, RSM353H1, SOC213H1, SOC363H1, SOC412H1, VIC106H1, VIC206H1, VIC278H1, WGS372H1, WRR307H1

Environment & Behaviour Minor (Science Program) - ASMIN1551

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Special Requirement

- Students must be enrolled in the Psychology Minor, Major or Specialist, to be considered for enrolment.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300+ level.)

For more information, please email the School of the Environment's Undergraduate Student Advisor, David Powell, at ug.office.env@utoronto.ca.

Higher Years:

- ENV221H1, ENV222H1, PSY220H1, PSY335H1/PSY435H1
- 1.0 credit from: ENV333H1, ENV335H1, ENV361H1/ENV381H1 (if ENV381H1 taken in 2015-16 or 2016-17), ENV464H1, JGE321H1, JGE331H1
- 1.0 credit from: PSY320H1, PSY321H1, PSY327H1/PSY427H1, PSY336H1

Psychology Minor (Science Program) - ASMIN1160

You should consider pursuing the Minor Program in Psychology if you are interested in Psychology as a part of your general education or as a compliment to your training in another profession (i.e., nursing, teaching, rehabilitation medicine, physical health and education, social work, speech-language pathology, etc.).

Enrolment Requirements:

This is a limited enrolment program. Note there are different options depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

Variable Minimum Grade or Minimum Grade Average
Meeting the minimum admission requirements does not guarantee entrance to the program. Students must prepare to achieve a higher grade/grade average than the posted minimums listed below, which will depend each year on both available program spots and the number of competitive applicants. The following courses must be completed:

For students who have completed 4.0 to 8.5 credits:

- PSY100H1 (73%)*
- Gr. 12 Calculus (passing grade)
- Gr. 12 Biology (passing grade)

For students who have completed 9.0 credits or more:

- PSY100H1 (passing grade)
- Gr. 12 Calculus (passing grade)
- Gr. 12 Biology (passing grade)
- PSY201H1 (or ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1), **and** 1.0 200-level PSY credits from PSY210H1, PSY220H1, PSY230H1, PSY240H1, PSY260H1, PSY270H1, PSY280H1, PSY290H1, with a grade average of 70%* across all three courses. If more than 1.0 200-level PSY credits have been completed, the two with the highest grades will be used.

*In past admission cycles, the average grade cut-off for the PSY Minor program ranged from approximately **75-76%**.

Notes:

1. In lieu of PSY100H1, we will also accept:

- PSY100Y5 from UTM, or
- PSYA01H3 **and** PSYA02H3 (both) from UTSC.

However, we will not accept AP or IB Psychology for this requirement.

2. For students who are missing Gr. 12 Calculus and/or Biology, please see the following link for more information on these requirements and how they can be fulfilled:
<https://psych.utoronto.ca/prospective-students/application-information#calculus-accordion-1>

3. We will accept equivalent/exclusion statistics courses from UTM/UTSC in lieu of PSY201H1. Please contact the Undergraduate Administrator to verify if your stats course qualifies.

Completion Requirements:

(4.0 credits):

1. PSY100H1 (**NOTE:** We will also accept PSY100Y5 from UTM, or both of PSYA01H3 **and** PSYA02H3 together from UTSC)
2. PSY201H1 (or one of ECO220Y1/ EEB225H1/ IRW220H1/ GGR270H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1)
3. 1.0 credit from PSY210H1/ PSY220H1/ PSY230H1/ PSY240H1/ PSY260H1/ PSY270H1/ PSY280H1/ PSY290H1 (**NOTE:** HMB200H1 cannot be used in place of PSY290H1)
4. 1.0 credit in PSY at the 300/400-level from Group 1 (any Cluster, excluding PSY306Y0, PSY399H1, PSY399Y1, PSY405H1, PSY406H1, PSY405Y1, and PSY406Y1)
5. 1.0 credit from Group 1 (any Cluster) and/or Group 2, at any level

Notes:

1. We will accept equivalent/exclusion statistics courses from UTM/UTSC in lieu of PSY201H1. Please contact the Undergraduate Administrator to verify if your stats course qualifies.

2. These are all individual requirements and cannot overlap or be used twice *within* the Minor.

Group 1 - Psychology Courses

Cluster A - Development, Social, Personality, and Psychopathology and Clinical Science

JLP315H1, PSY194H1, PSY195H1, PSY197H1, PSY210H1, PSY220H1, PSY230H1, PSY240H1, PSY311H1, PSY312H1, PSY313H1, PSY316H1, PSY319H1, PSY320H1, PSY321H1, PSY322H1, PSY323H1, PSY324H1, PSY326H1, PSY328H1, PSY329H1, PSY330H1, PSY331H1, PSY332H1, PSY333H1, PSY336H1, PSY337H1, PSY339H1, PSY341H1, PSY342H1, PSY343H1, PSY349H1, PSY410H1, PSY414H1, PSY417H1, PSY420H1, PSY421H1, PSY422H1, PSY424H1, PSY425H1,

PSY426H1, PSY427H1, PSY428H1, PSY430H1,
PSY435H1, PSY440H1, PSY450H1, PSY455H1

Cluster B - Learning, Perception, Cognition, and the Brain

JLP374H1, JLP471H1, PSY196H1, PSY198H1,
PSY199H1, PSY260H1, PSY270H1, PSY280H1,
PSY290H1, PSY312H1, PSY316H1, PSY359H1,
PSY360H1, PSY362H1, PSY369H1, PSY370H1,
PSY371H1, PSY372H1, PSY378H1, PSY379H1,
PSY380H1, PSY389H1, PSY390H1, PSY395H1,
PSY396H1, PSY397H1, PSY450H1, PSY455H1,
PSY460H1, PSY470H1, PSY471H1, PSY473H1,
PSY475H1, PSY480H1, PSY490H1, PSY492H1,
PSY493H1, PSY494H1, PSY495H1, PSY496H1,
PSY497H1

Cluster C - Methods and Applications

PSY201H1, PSY202H1, PSY203H1, PSY204H1,
PSY299H1, PSY299Y1, PSY305H1, PSY306Y0,
PSY307H1, PSY308H1, PSY399H1, PSY399Y1,
PSY400Y1, PSY402H1, PSY403H1, PSY404H1,
PSY405H1, PSY405Y1, PSY406H1, PSY406Y1,
PSY407H1, PSY408H1, PSY409H1, PSY422H1,
PSY455H1

Group 2 - Related Courses

ANT442H1, BIO120H1, BIO130H1, BIO220H1,
BIO270H1, BIO271H1, BPM200H1, BPM232H1,
BPM330H1, BPM332H1, BPM333H1, BPM335H1,
BPM336H1, BPM337H1, BPM338H1, BPM339H1,
BPM432H1, BPM433H1, BPM438H1, BPM499H1,
CJH332H1, COG250Y1, COG260H1, COG341H1,
COG342H1, COG343H1, CRE345H1, CRI365H1,
CRI431H1, ECO423H1, EDS261H1, EEB313H1,
ENG384Y1, HIS489H1, HMB200H1, HMB300H1,
HMB310H1, HMB320H1, HMB420H1, HMB440H1,
HMB460H1, HMB473H1, HPS110H1, HPS120H1,
HPS200H1, HPS300H1, HPS347H1, IRE260H1,
JFP450H1, JHA410H1, JLS472H1, JLS473H1,
LIN101H1, LIN102H1, LIN200H1, LIN402H1, NEW302Y1,
NEW303H1, NFS489H1, PCL200H1, PCL475H1,
PCL476H1, PHL240H1, PHL243H1, PHL244H1,
PHL319H1, PHL340H1, PHL342H1, PHL358H1,
PHL383H1, PSL201Y1, PSL300H1, PSL440Y1,
RLG106H1, RLG211H1, RLG301H1, RLG380H1,
RLG390H1, RLG421H1, RSM260H1, RSM353H1,
SOC213H1, SOC363H1, SOC412H1, VIC106H1,
VIC206H1, VIC278H1, WGS372H1, WRR307H1

Psychology of Economics and Management Certificate - ASCER1160

The Certificate in Psychology of Economics and Management will provide students with a specialized curriculum that explores the interdisciplinary connections between social psychology, economics, and business; covering the role of motivation, culture, and leadership in organizations. This certificate would be of interest to students in Economics and Rotman Commerce, and is not open to students pursuing a Psychology Specialist, Research Specialist, Major, or Minor.

Enrolment Requirements:

This is a limited enrolment Certificate. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- PSY100H1 (70%)
- RSM100H1 (63%)/ MGT100H1 (63%)/ ECO101H1 (63%)

Special Requirement

- This Certificate is NOT open to students enrolled in a Psychology Specialist, Research Specialist, Major, or Minor.

Completion Requirements:

(3.0 credits)

In first year or higher (1.0 credit):

- PSY100H1 (minimum grade of 70%)
- RSM100H1/ MGT100H1/ ECO101H1 (minimum grade of 63%)

In second year and higher (2.0 credits):

- PSY220H1
- PSY332H1/ RSM260H1/ IRE260H1
- 1.0 credit from: PSY321H1, PSY322H1, PSY326H1, PSY336H1

Regarding Psychology Courses

We encourage students at all levels, and particularly those who are beginning a program in Psychology, to consult the undergraduate section of the Psychology website (<https://www.psych.utoronto.ca/undergraduate>) before selecting courses and to discuss their proposed programs with the Undergraduate Administrator or Undergraduate Assistant.

Courses in the various areas within Psychology and the numbering system associated with these courses follow a specific pattern: PSYXXX. The first digit represents the year, and the second digit represents the area in which the course belongs. Social Psychology, for example, is identified by “2.” Therefore, PSY220 at the second year, PSY320, 321, 322, etc. at the third year, and PSY420, 421, 424, etc. at the fourth year represent the Social Psychology courses. Other areas within Psychology follow a similar pattern, with their own identifying number in the middle.

Please note that the Department of Psychology will not waive course prerequisites under any circumstances and that Psychology courses do not have *co-requisites*. Students will need to have prerequisites completed before taking a course.

Psychology Courses

PSY100H1 - Introductory Psychology

Hours: 36L

A brief introductory survey of psychology as both a biological and social science. Topics will include behavioural neuroscience, learning, perceptual, motivational, cognitive, developmental, personality, abnormal, and social psychology.

Exclusion: PSY100Y5/ (PSYA01H3 and PSYA02H3)

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY194H1 - The Psychology of Student Success

Hours: 24S

University life presents students with all sorts of challenges as well as amazing opportunities for learning and growth. While there are many different ways to define a “successful student”, the goal of this seminar is for everyone to develop the knowledge, skills, and mindset needed to make the most of out of the university

200-Level Courses

Students registered in a St. George campus PSY program will be given priority to enrol in all PSY courses above the 100-level. Detailed course enrolment controls can be found on the online timetable and ACORN. PSY100H1 is required in order to take all 200-level PSY courses, with the exception of PSY202H1 which requires PSY201H1.

300-Level Courses

Almost all 300/400-level lecture courses require PSY201H1 (Statistics I), or its equivalent/exclusion, as one of their prerequisites. This will **not** be waived. Students *must* complete the statistics requirement before taking any 300- or 400-level PSY lecture courses. Similarly, 300-level lab and 400-level seminar courses require PSY202H1 (Statistics II) or its equivalent/exclusion.

400-Level Courses

The 400-level courses comprise of lecture courses, seminars, individual projects, and the thesis course for Research Specialists.

experience. Students will discover what research in psychological science has to say about facing and overcoming common academic, intrapersonal, and interpersonal challenges, as we cover topics including deliberate practice, imposter syndrome, and belongingness. Students will also learn evidence-based strategies for better managing their attention, energy, and emotions so that they may thrive (rather than just survive) in university. In addition to learning about psychology, students will develop useful skills in scientific literacy, critical thinking, self-reflection, written and oral communication, and teamwork. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY195H1 - The Science of Babies and Children

Hours: 24S

This course will use an interdisciplinary perspective to explore how the infant mind emerges and grows. Topics could include how brain plasticity influences “critical” or “sensitive” periods for learning, or how studying infants’ perception, cognition and behaviour can offer us critical insights into long-standing philosophical questions. Note that specific content will depend on the instructor and will be posted on the Department of Psychology’s

Undergraduate Course Information webpage. During the course, students will (1) engage in lively discussion and present their perspectives; (2) use exploratory writing to develop arguments and their understanding of subject matter; and (3) begin to read and summarize scientific research papers in Developmental Psychology. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY197H1 - Rethinking the Human Mind

Hours: 24S

This course will use an interdisciplinary perspective to explore the quirks, achievements, and puzzles of the human mind. Topics could include how technology and tools extend our minds, or the light that our ability (and inability) to reason sheds on human nature. Note that specific content will depend on the instructor and will be posted on the Department of Psychology's Undergraduate Course Information webpage. During the course, students will: (1) engage in lively discussion and present their perspectives; and (2) use exploratory writing to develop arguments and their understanding of the subject matter. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY198H1 - The Psychology of Magic

Hours: 24S

Magicians entertain us with their tricks. What appears as "Magic" is based on fundamental aspects of human psychology: visual and auditory perception, decision making, logic, memory, and verbal abilities. In this class, we will consider and discuss the psychological basis of magic tricks and use magic to explore aspects of psychology. The class will require reading of scientific articles and book chapters as well as watching and analyzing magical tricks. The only prerequisite is a curious and critical mind. The course puts great emphasis on writing and on starting to read primary scientific literature. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY199H1 - Psychology and History of Drug Use

Hours: 24S

This seminar will examine the historical and contemporary use of drugs. Students will be introduced to the general psychological and neuroscientific mechanisms by which drugs affect human behavior, and explore highlights of current research on drug effects in animals and humans. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY201H1 - Statistics I

Hours: 36L

Fundamentals of descriptive and inferential statistics, including population and sampling distributions, simple association, probability, estimation, and hypothesis testing.

Prerequisite: PSY100H1/ PSY100Y5/ (PSYA01H3 and PSYA02H3)/ COG250Y1

Exclusion: ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3

Recommended Preparation: Grade 12 Calculus

Breadth Requirements: The Physical and Mathematical Universes (5)

PSY202H1 - Statistics II

Hours: 36L

Fundamentals of statistical analysis of experimental and observational data including linear models, the analysis of variance, a priori contrasts, post-hoc tests, power analysis and effect size calculations.

Prerequisite: PSY201H1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3

Exclusion: ECO220Y1/ SOC252H1/ STA221H1/ PSY202H5/ ECO220Y5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3

Breadth Requirements: The Physical and Mathematical Universes (5)

PSY203H1 - Psychological Research

Hours: 36P

This course provides an introduction to conceiving, designing, and conducting research in psychology. It prepares students to be both consumers and producers of scientific research, and also addresses basic issues related to the work of psychological scientists such as theory development, research ethics, and scientific writing. Students in this course will gain insight into the scientific process as a whole – its advantages, difficulties, and limitations. As such, students will be able to better evaluate the knowledge that psychological science can provide, and integrate that knowledge into a broader worldview.

Prerequisite: PSY100H1/ PSY100Y5/ (PSYA01H3 and PSYA02H3)/ COG250Y1

Corequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3

Exclusion: PSYB70H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY204H1 - Psychology Careers and Applications

Hours: 36L

Psychology has been identified as a hub science, a discipline whose research influences the work of scientists in many other fields. This course will provide students with a broad introduction to the application of the psychological sciences across various clinical, academic, and industry contexts. Students will gain valuable insight into the broad range of careers that are relevant to psychology, while also investigating barriers to rigorous application of psychological science in applied settings. Students will also learn how the skills and knowledge gained in an undergraduate psychology program can be applied to a broad range of careers and fields/sectors. Students will gain significant exposure to career and education planning considerations within the psychological sciences and will participate in at least one experiential career exploration activity. Enrolment in this course is completely restricted to current PSY program students.

Prerequisite: PSY100H1/ PSY100Y5/ (PSYA01H3 and PSYA02H3)

Recommended Preparation: 0.5 PSY credit at the 200-level

Breadth Requirements: Society and its Institutions (3)

PSY210H1 - Introduction to Developmental Psychology

Hours: 36L

The developmental approach to the study of behaviour with a focus on infancy through childhood. Topics include sensorimotor skills, cognition, socialization, personality, and emotional behaviour.

Prerequisite: PSY100H1/ PSY100Y5/ PSYA02H3/ COG250Y1

Exclusion: PSY210H5/ PSYB20H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY220H1 - Introduction to Social Psychology

Hours: 36L

Contemporary areas of research in social psychology: social perception, attitudes, inter-personal relations, and group processes.

Prerequisite: PSY100H1/ PSY100Y5/ PSYA02H3/ COG250Y1

Exclusion: PSY220H5/ PSYB10H3/ SOC213H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY230H1 - Personality and Its Transformations

Hours: 36L

Theory and research in personality structure and dynamics: the interaction of cultural and biological factors in the development and expression of individual differences.

Prerequisite: PSY100H1/ PSY100Y5/ PSYA02H3/ COG250Y1

Exclusion: PSY230H5/ PSYB30H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY240H1 - Introduction to Psychopathology and Clinical Science

Hours: 36L

A critical survey of concepts, theories, and the state of research in the area of psychopathology and therapeutic methods.

Prerequisite: PSY100H1/ PSY100Y5/ PSYA02H3/ COG250Y1

Exclusion: PSY240H5/ PSYB32H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY260H1 - Introduction to Learning and Plasticity

Hours: 36L

Concepts, theories, and applications of classical and contemporary learning theories, including classical and operant conditioning. Current theories of the physiological and anatomical basis of learning and memory, including synaptic plasticity, the role of the hippocampus, amygdala, frontal cortex and other brain regions. Theories will be related to a practical understanding and applications such as drug addiction, phobias and other disorders.

Prerequisite: PSY100H1/ PSY100Y5/ PSYA01H3/ COG250Y1

Exclusion: PSYB38H3

Breadth Requirements: Living Things and Their Environment (4)

PSY270H1 - Introduction to Cognitive Psychology

Hours: 36L

An introduction to research and theory on the neural and cognitive architecture of attention, memory, language, thinking and reasoning.

Prerequisite: PSY100H1/ PSY100Y5/ PSYA01H3/ COG250Y1

Exclusion: PSY270H5/ PSYB57H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY280H1 - Introduction to Sensation and Perception

Hours: 36L

An introduction to the physiological and psychological basis of perception across the different sensory modalities in humans and lower animals, with an emphasis on vision. Exploring visual perception such as shape and objects,

scenes, colour, space, and motion as well as auditory perception of simple and complex sounds, and location. Further topics may include touch, including perception of temperature, pain and body posture, the chemical senses, and cross-modal influences of the senses on one another. In-class demonstrations may supplement the lectures.

Prerequisite: PSY100H1/ PSY100Y5/ PSYA01H3/ COG250Y1

Exclusion: PSY280H5/ PSYB51H3

Breadth Requirements: Living Things and Their Environment (4)

PSY290H1 - Behavioural Neuroscience

Hours: 36L

Provides students with a solid background in the biological basis of behaviour. Animal and human research topics will include functional neuroanatomy and neural signalling. Further topics may include sensory and motor control, motivational systems, hormones, and emotions, among other topics.

Prerequisite: PSY100H1/ PSY100Y5/ PSYA01H3/ COG250Y1

Exclusion: HMB200H1/ PSY290H5/ PSYB64H3

Breadth Requirements: Living Things and Their Environment (4)

PSY299H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PSY299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PSY305H1 - The Treatment of Psychological Data

Hours: 36L

This course provides a practical yet intensive introduction to the research pipeline, with a focus on research data management and advanced statistical analysis and inference. Students learn how to find, organize, and analyze data sets in a transparent and reproducible way. Students also learn more about statistical inference, focusing on how the design and analysis of data shape the interpretation of results.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3

Exclusion: EEB313H1

Breadth Requirements: The Physical and Mathematical Universes (5)

PSY306Y0 - Special Topics in Psychology Abroad

Hours: 48L

Special Topics in Psychology for the **Summer Abroad Program**. Course topics, content, and instructor may vary from one year to another. More information about Psychology and other course offerings can be obtained from the Summer Abroad website at <https://summerabroad.utoronto.ca/>. For students in any Psychology and/or Social Science Major or Specialist.

Prerequisite: Completion of 8.0 credits

PSY307H1 - Special Topics in Psychology

Hours: 36L

A lecture course providing in-depth examination of specific topics/themes relating to Psychology. Content in any given year depends on instructor. Priority is given to PSY Major program students during the first enrolment period.

Prerequisite: PSY100H1/ PSY100Y5/ (PSYA01H3 and PSYA02H3), **and** PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, **and a** 0.5 PSY credit at the 200-level

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY308H1 - Special Topics in Psychology

Hours: 36L

A lecture course providing in-depth examination of specific topics/themes relating to Psychology. Content in any given year depends on instructor. Priority is given to PSY Major program students during the first enrolment period.

Prerequisite: PSY100H1/ PSY100Y5/ (PSYA01H3 and PSYA02H3), **and** PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, **and a** 0.5 PSY credit at the 200-level

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY309H1 - Research Specialization: Practicum

Hours: 36P

Research Specialists learn about the research opportunities within our department, and develop skills in the areas of critical thinking, writing, and oral presentation. Students also conduct a pre-thesis research project under the supervision of a faculty member. Students should complete a PSY lab course (PSY3*9H1) prior to taking this course; however, taking the lab course concurrently will be considered in consultation with the instructor. Enrolment is restricted to PSY Research Specialists.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3

Corequisite: PSY319H1/ PSY329H1/ PSY339H1/ PSY349H1/ PSY359H1/ PSY369H1/ PSY379H1/ PSY389H1

Exclusion: PSY309H5

PSY311H1 - Social Development

Hours: 36L

Theory and research in social attachment, aggression, morality, imitation and identification, altruism, and parental discipline, with discussion of methodological issues.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, **and**

PSY210H1/ PSY210H5/ PSYB20H3

Exclusion: PSY311H5/ PSYC21H3/ PSYC27H3/ PSYD22H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY312H1 - Cognitive Development

Hours: 36L

This course examines the developmental of knowledge in fundamental domains such as spatial perception, navigation, object perception, number, language, and theory of mind. Emphasis is on current experimental findings and how they address centuries-old debates surrounding the origin and nature of human knowledge.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY210H1/ PSY210H5/ PSYB20H3

Exclusion: PSY312H5

Recommended Preparation: PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY313H1 - Psychology of Aging

Hours: 36L

Age changes in sensory and perceptual processes, motor skill, learning, memory, and personality. Theory, methodological problems, social, cultural, and environmental influences that shape behaviour and attitudes towards and among the elderly.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY210H1/ PSY210H5/ PSYB20H3

Exclusion: PSY313H5/ PSYC21H3

Breadth Requirements: Thought, Belief and Behaviour (2)

JLP315H1 - Language Acquisition

Hours: 36L

Infants' abilities at birth, prelinguistic development, the first words, phonological, syntactic and semantic development. Social variables influencing language acquisition,

bilingualism, models of development, language play. (Sponsored by the Departments of Linguistics and Psychology, but administered solely by the Dept. of Linguistics).

Prerequisite: 1.0 credit at the 200+ level in LIN/JAL/JUP/PSL/PSY/COG

Exclusion: PSY315H5, PLIC24H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY316H1 - Perceptual Development

Hours: 36L

The course examines human perceptual development during the first 2-3 years of life. Vision and audition are emphasized. Some topics are: pattern and colour vision, depth perception, infant speech perception.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY280H1/ PSY280H5/ PSYB51H3

Exclusion: PSY316H5/ PSYC22H3

Recommended Preparation: PSY210H1/ PSY210H5/ PSYB20H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY319H1 - Developmental Laboratory

Hours: 36P

This laboratory course provides an overview of developmental psychology methods. The class conducts an original research project, including design, data collection, data analysis, and a written report. Course capacity is limited to 15 students and priority is given to PSY Specialists and Research Specialists during the first enrolment period.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and PSY210H1/ PSY210H5/ PSYB20H3

Exclusion: PSY319H5/ PSYC72H3

Recommended Preparation: PSY203H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY320H1 - Social Psychology: Attitudes

Hours: 36L

An intensive study of social attitude development, description, measurement, modification, and organization.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Exclusion: PSY320H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY321H1 - Cross-Cultural Psychology

Hours: 36L

One of the hallmarks of human behaviour is its diversity. Some of the ways in which we differ are thought to be relatively idiosyncratic (e.g., specific aspects of personality), whereas others are fairly systematic. Cultural psychology is one area of research in human behaviour that examines systematic differences resulting from individuals' cultural backgrounds. This course will introduce you to the consideration of cultural variation in the study of human thought and behaviour.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Exclusion: PSY321H5/ PSYC14H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY322H1 - Intergroup Relations

Hours: 36L

An in-depth examination of theories and research in intergroup relations; focuses on stereotyping, prejudice, discrimination, and stigma.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Exclusion: PSYC12H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY323H1 - Sex Roles and Behaviour

Hours: 36L

The effect of sex-role expectations on how men and women behave and perceive the world: theories of sex-role development, physiological and cultural determinants of sex differences, power relationships between men and women.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and one of PSY210H1/ PSY210H5/ PSYB20H3, or PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1, or PSY230H1/ PSY230H5/ PSYB30H3, or PSY240H1/ PSY240H5/ PSYB32H3

Exclusion: PSY317H5/ PSYD18H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY324H1 - Moral Thought and Behaviour

Hours: 36L

Moral values vary considerably across individuals, groups, countries, and cultures. What explains the emergence of these differential moral systems? What psychological processes are involved in moral decisions and actions? How might insights from psychological research shed light on contemporary, 'hot-button' moral issues? How are moral decisions similar to – and different from – other types of everyday decisions? What is the role of emotion in moral decision making? As an introduction to the field of moral psychology, this 300-level course will cover research from a range of sub-disciplines within psychology including social-personality psychology, cognitive neuroscience, and developmental psychology. In addition, students will gain exposure to related material in other fields including philosophy, ethology, and economics. Students will gain a firm understanding of the key debates and issues in the study of the moral mind and will gain skills in critical thinking and writing.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Exclusion: PSYD14H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY326H1 - Social Cognition

Hours: 36L

An examination of theory and research on how we make sense of ourselves and our social world. Topics covered include the self, decision-making, attitudes, attribution processes and impression formation, and social categorization.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Exclusion: PSYC13H3/ PSYD15H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY328H1 - Psychology and the Law

Hours: 36L

This course deals with psychological issues in the law, with particular reference to criminal law. It focuses mainly on research that has been done on pretrial publicity, eyewitness testimony, rules of evidence, and other factors that might affect jury decisions.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Exclusion: PSY328H5/ PSYC39H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY329H1 - Social Psychology Laboratory

Hours: 36P

This laboratory course illustrates major methodologies within social psychology, such as attitude measurement, observation of small groups, and experiments. Course capacity is limited to 15 students and priority is given to PSY Specialists and Research Specialists during the first enrolment period.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Exclusion: PSY329H5/ PSYC71H3

Recommended Preparation: PSY203H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY330H1 - Psychological Measurement

Hours: 36L

This course focuses on the development and evaluation of psychological measures, including the measurement of knowledge, abilities, attitudes, and personality traits. We will discuss theoretical and methodological issues in psychological measurement, covering important concepts such as reliability and validity and how these affect the interpretation of test scores and research findings. There will be some discussion of the application of psychological measures to various settings and the ethics of psychological assessment.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3

Exclusion: PSY330H5/ PSYC37H3

Recommended Preparation: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and PSY230H1/ PSY230H5/ PSYB30H3

PSY331H1 - Social Psychology of Emotion

Hours: 36L

An in-depth review of the role of emotion in human psychology, with an emphasis on the links between emotion and cognition. Topics include theories of emotion, emotion regulation, emotional expression, and emotional experience, the role of emotion in decision-making, and the relationships between emotion, motivation and behaviour.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Exclusion: PSYC18H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY332H1 - Organizational Behaviour

Hours: 36L

An analysis of the individual, group, and institutional structures and processes that influence behaviour within organizations. Topics may include motivation, leadership, communication, group processes and teamwork, and organizational culture.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, **and one of** PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1, **or** PSY230H1/ PSY230H5/ PSYB30H3

Exclusion: IRE260H1/ RSM260H1

Breadth Requirements: Society and its Institutions (3)

PSY333H1 - Health Psychology

Hours: 36L

This course examines research evidence concerning the impact of psychological factors on physical health and illness.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, **and one of** PSY230H1/ PSY230H5/ PSYB30H3, **or** PSY240H1/ PSY240H5/ PSYB32H3

Exclusion: PSY333H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY336H1 - Positive Psychology

Hours: 36L

A review of the field of positive psychology, which is the study of happiness and fulfillment. Topics include personal growth, meaning, hedonic and eudaimonic approaches to well-being, gratitude, awe, flow states, mindfulness and meditation.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/

ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, **and one of** PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1, **or** PSY230H1/ PSY230H5/ PSYB30H3, **or** PSY240H1/ PSY240H5/ PSYB32H3

Exclusion: PSY324H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY337H1 - Advanced Personality Psychology

Hours: 36L

This course covers major topics in personality psychology including prominent theories and current research in the area. Theoretical frameworks are integrated with specific applications in primary sources. Specific topics may include personality structure, personality development, psychodynamic approaches, genetic methodology, and emotion regulation.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, **and one of** PSY230H1/ PSY230H5/ PSYB30H3, **or** PSY240H1/ PSY240H5/ PSYB32H3

Exclusion: PSYC30H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY339H1 - Individual Differences Laboratory

Hours: 36P

This laboratory course will introduce research methods and statistical techniques involved in individual differences research. You will learn by doing, with the opportunity to complete an individual research project from start to finish. Course capacity is limited to 15 students and priority is given to PSY Specialists and Research Specialists.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, **and one of** PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1, **or** PSY230H1/ PSY230H5/ PSYB30H3

Exclusion: PSY329H5

Recommended Preparation: PSY203H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY341H1 - Psychopathologies of Childhood

Hours: 36L

This course focuses on cognitive and neuropsychological aspects of neurodevelopmental and psychiatric disorders in children from clinical and theoretical perspectives.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, **and one of** PSY210H1/ PSY210H5/ PSYB20H3, **or** PSY230H1/ PSY230H5/ PSYB30H3, **or** PSY240H1/ PSY240H5/ PSYB32H3

Exclusion: PSY341H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY342H1 - Cognition and Psychopathology

Hours: 36L

Work in psychological disorders has increasingly used the theories and methodologies of cognitive psychology to guide research. This course will examine accounts of clinical disorders informed by cognitive experimental psychology, with emphasis on recent work in affective disorders.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, **and one of** PSY230H1/ PSY230H5/ PSYB30H3, **or** PSY240H1/ PSY240H5/ PSYB32H3, **or** PSY270H1/ COG250Y1/ PSY270H5/ PSYB57H3

Exclusion: PSY340H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY343H1 - Theories of Psychopathology and Psychotherapy

Hours: 36L

This course examines various theories of how personality functioning may become impaired and corresponding psychotherapeutic interventions. Emphasis on empirical assessment of personality dysfunction and therapy effectiveness.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, **and one of** PSY230H1/ PSY230H5/ PSYB30H3, **or** PSY240H1/ PSY240H5/ PSYB32H3

Exclusion: PSY343H5/ PSYC36H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY349H1 - Laboratory in Social Psychological Field Methods

Hours: 36P

This laboratory class introduces students to field methods in social psychology used to study social processes as they unfold in daily life and public spaces. Students will get hands on experience to collecting, managing, storing, and communicating data collected through observational and longitudinal methods, including data collection in public spaces around Toronto and online. Course capacity is limited to 15 students and priority is given to PSY Specialists and Research Specialists during the first enrolment period.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, **and** PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Recommended Preparation: PSY203H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY359H1 - Human Neuroimaging Laboratory

Hours: 36P

Introduction to brain imaging methods used in cognitive, developmental, and social neuroscience. Course projects will cover experimental design, imaging techniques, and data analysis. Course capacity is limited to 15 students and priority is given to PSY Specialists and Research Specialists during the first enrolment period.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, **and** PSY210H1/ PSY210H5/ PSYB20H3 **or** PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1 **or** PSY230H1/ PSY230H5/ PSYB30H3 **or** PSY240H1/ PSY240H5/ PSYB32H3, **and** PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1 **or** PSY280H1/ PSY280H5/ PSYB51H3

Exclusion: HMB310H1/ PSY368H5/ PSYC76H3/ PSYD55H3

Recommended Preparation: PSY203H1

Breadth Requirements: Living Things and Their Environment (4)

PSY360H1 - Associative Learning

Hours: 36L

Learning allows our experiences to shape what we know, what we can do and how we interact with our environments. This course addresses the fundamental concepts and more important research findings related to contemporary theories of associative learning in animals and humans. It examines the application of such fundamental research to issues such as the neural substrates of behaviour, drug use, and anxiety disorders. It is designed to foster skills in critical thinking, experimental design and reading primary sources in this area.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY260H1/ PSYB38H3

Breadth Requirements: Living Things and Their Environment (4)

PSY362H1 - Animal Cognition

Hours: 36L

The study of memory, representation, concept learning, and other cognitive processes in non-human animals.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY260H1/ PSYB38H3, or PSY270H1/ PSY270H5/ PSYB57H3 and PSY290H1/ PSY290H5/ PSYB55H3/ PSYB64H3/ HMB200H1/ PSL300H1

Exclusion: PSY362H5

Breadth Requirements: Living Things and Their Environment (4)

PSY369H1 - Psychobiology Laboratory

Previous Course Number: PSY399H1

Hours: 36P

This lab is an introduction to experimental methods in behavioural neuroscience, including neuroanatomical and psychopharmacological methods in rodents. Course

projects will cover experimental design, laboratory techniques, data analysis, and scientific writing. *Class data will be analyzed using analysis of variance (ANOVA) and related statistical methods, so familiarity with these methods is recommended preparation.* Course capacity is limited to 12 students, and priority is given to PSY Specialists and Research Specialists during the first enrolment period.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and PSY290H1/ PSY290H5/ PSYB55H3/ PSYB64H3/ HMB200H1

Exclusion: HMB310H1/ PSY369H5

Recommended Preparation: PSY203H1

Breadth Requirements: Living Things and Their Environment (4)

PSY370H1 - Thinking and Reasoning

Hours: 36L

Problem-solving as a model of directed thinking; conceptual behaviour and mental representation; induction, deduction and learning; probabilistic reasoning; creative thinking and complex problem solving.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY371H1 - Higher Cognitive Processes

Hours: 36L

This course covers selected topics pertaining to higher cognitive processes including rationality, consciousness, creativity, and human and artificial intelligence.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY270H1/ PSY270H5/ PSYB57H3/ PSY370H1/ COG250Y1

Exclusion: PSY371H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY372H1 - Human Memory

Hours: 36L

Current theories and data on human memory: processes involved in encoding, storage, and retrieval.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, **and one of** PSY260H1/ PSYB38H3 **or** PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1

Exclusion: PSY372H5/ PSYC53H3

Breadth Requirements: Thought, Belief and Behaviour (2)

JLP374H1 - Psychology of Language

Hours: 36L

In Psychology of Language, we investigate human and other animal communication, structure of human language, word meaning and semantic memory, psychological studies of syntax, bilingualism, language and thought, language errors and disorders. (Sponsored by the Departments of Linguistics and Psychology, but administered solely by the Dept. of Linguistics).

Prerequisite: 1.0 credit from LIN228H1, LIN229H1, LIN232H1, LIN241H1, PSY260H1, PSY270H1, PSY280H1, PSY290H1, COG250Y1

Exclusion: LIN258H5, PSY374H5, PLIC55H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY378H1 - Engineering Psychology

Hours: 36L

The application of our knowledge of human information processing capabilities to improve human-machine systems design in a number of engineering environments including aviation, computer software, human-computer interaction, and nuclear power plants.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, **and one of** PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1 **or** PSY280H1/ PSY280H5/ PSYB51H3

Recommended Preparation: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY379H1 - Human Memory and Learning Laboratory

Hours: 36P

Examination of issues and methods in human memory research. Students conduct supervised research projects, and read, critique, and write research articles. Course capacity is limited to 15 students and priority is given to PSY Specialists and Research Specialists during the first enrolment period.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, **and one of** PSY260H1/ PSYB38H3 **or** PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1

Exclusion: PSY379H5/ PSYC75H3

Recommended Preparation: PSY203H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY380H1 - Vision Science

Hours: 36L

Integrates psychology, neuroscience, and computer science approaches to the study of vision science. Topics include: history and philosophy of vision science, low-level vision, motion perception, spatial vision, perception of objects and scenes, colour perception, attention and consciousness, and multisensory integration. Demonstrations/in-class experiments supplement lectures and readings. Emphasis on reading and writing scientific articles in vision science.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, **and one of** PSY280H1/ PSY280H5/ PSYB51H3, **or** PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1, **or** PSY290H1/ PSY290H5/ PSYB64H3/ HMB200H1/ PSL300H1, **or** COG341H1

Exclusion: PSYC51H3

Breadth Requirements: Living Things and Their Environment (4)

PSY389H1 - Perception Laboratory

Hours: 36P

Examination of issues and methods in perception research. Students conduct supervised research projects, and read, critique, and write research articles. Course capacity is limited to 15 students and priority is given to PSY Specialists and Research Specialists during the first enrolment period.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and PSY280H1/ PSY280H5/ PSYB51H3

Recommended Preparation: PSY203H1

Breadth Requirements: Living Things and Their Environment (4)

PSY390H1 - Behavioural Genetics

Hours: 36L

An examination of how genes contribute to the production of behaviour, either as structural elements or direct participants in behavioural regulation. Covers molecular genetics, natural selection, and genetic methods followed by specific examples of congenic disorders that affect behaviour and studies of normal behaviours in human and animal models.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and one of PSY260H1/ PSYB38H3 or PSY290H1/ PSY290H5/ PSYB64H3 or BIO260H1/ HMB200H1/ HMB265H1/ PSL300H1

Exclusion: PSY355H5

Breadth Requirements: Living Things and Their Environment (4)

PSY395H1 - Neuroethics

Hours: 36L

An examination of how developments in neurology and neuroscience can be used to inform ethical and legal issues related to free will, responsibility, competence, education, morality, and empathy in healthy people and in people with confirmed or suspected neurological disorders.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and one of PSY260H1/ PSYB38H3 or PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1 or PSY280H1/

PSY280H5/ PSYB51H3 or PSY290H1/ PSY290H5/ PSYB55H3/ PSYB64H3/ HMB200H1

Recommended Preparation: Review of basic brain functions

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY396H1 - Neurochemical Basis of Behaviour

Hours: 36L

The functional relevance of neurotransmitters, with particular emphasis on their role in mediating behaviour.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and one of PSY260H1/ PSYB38H3 or PSY290H1/ PSY290H5/ PSYB64H3/ HMB200H1/ PSL300H1
Exclusion: PCL200H1/ PCL476H1/ PSYC62H3
Breadth Requirements: Living Things and Their Environment (4)

PSY397H1 - Biological Rhythms

Hours: 36L

Daily, monthly, annual and other rhythms and methods of measuring them. Behavioural and physiological aspects of biological clocks. The importance of rhythms in experimental design, in research on brain function, in affective disorders, and the use animals make of rhythms in migration and other behaviours.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and one of PSY260H1/ PSYB38H3 or PSY290H1/ PSY290H5/ PSYB64H3/ HMB200H1/ PSL300H1
Breadth Requirements: Living Things and Their Environment (4)

PSY399H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PSY399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

PSY400Y1 - Research Specialization: Thesis

An individual thesis done under the direction of a faculty member. Lecture and seminar presentations of proposals in the Fall session. Enrolment is restricted to PSY Research Specialists. Not eligible for CR/NCR option.

Prerequisite: Enrolment in the PSY Research Specialist program, **and** PSY309H1, **and one of** PSY319H1/ PSY329H1/ PSY339H1/ PSY349H1/ PSY359H1/ PSY369H1/ PSY379H1/ PSY389H1

Corequisite: PSY409H1

Exclusion: PSY400Y5/ PSYC98Y3

PSY402H1 - Psychology Seminar

Hours: 24S

Undergraduate students who are given permission to take a seminar at the *graduate* level offered through the Dept. of Psychology's Graduate Program will be enrolled into this course code. Permission to take a graduate seminar for undergraduate credit must be obtained through three channels. First, the instructor of the grad course must give the student permission. It is ultimately up to instructor to decide whether the course is appropriate for undergraduate students, as well as if the specific student has the appropriate academic background to succeed in the course. Accordingly, the student may be asked to provide details about their relevant academic and/or research experience to assess their qualifications. Second, the Graduate Administrator (psy.graduate@utoronto.ca) must confirm if there is space in the course after graduate students have enrolled. Finally, the Undergraduate Administrator (psy.undergrad@utoronto.ca) must receive an email from the Graduate Administrator confirming that the student has permission to enrol. The following information must be included in the email: Student name, student number, graduate course code and term (F or S), and the course subtitle. The student will then be enrolled into this undergraduate course code by the Department. It is the student's responsibility to contact the graduate instructor

to initiate this process and to follow-up with both the Graduate and Undergraduate Administrators to ensure their enrolment.

PSY403H1 - Psychology Seminar

Hours: 24S

Undergraduate students who are given permission to take a seminar at the *graduate* level offered through the Dept. of Psychology's Graduate Program will be enrolled into this course code. Permission to take a graduate seminar for undergraduate credit must be obtained through three channels. First, the instructor of the grad course must give the student permission. It is ultimately up to instructor to decide whether the course is appropriate for undergraduate students, as well as if the specific student has the appropriate academic background to succeed in the course. Accordingly, the student may be asked to provide details about their relevant academic and/or research experience to assess their qualifications. Second, the Graduate Administrator (psy.graduate@utoronto.ca) must confirm if there is space in the course after graduate students have enrolled. Finally, the Undergraduate Administrator (psy.undergrad@utoronto.ca) must receive an email from the Graduate Administrator confirming that the student has permission to enrol. The following information must be included in the email: Student name, student number, graduate course code and term (F or S), and the course subtitle. The student will then be enrolled into this undergraduate course code by the Department. It is the student's responsibility to contact the graduate instructor to initiate this process and to follow-up with both the graduate and undergraduate administrators to ensure their enrolment.

PSY404H1 - Psychology Seminar

Hours: 24S

Undergraduate students who are given permission to take a seminar at the *graduate* level offered through the Dept. of Psychology's Graduate Program will be enrolled into this course code. Permission to take a graduate seminar for undergraduate credit must be obtained through three channels. First, the instructor of the grad course must give the student permission. It is ultimately up to instructor to decide whether the course is appropriate for undergraduate students, as well as if the specific student has the appropriate academic background to succeed in the course. Accordingly, the student may be asked to provide details about their relevant academic and/or research experience to assess their qualifications. Second, the Graduate Administrator (psy.graduate@utoronto.ca) must confirm if there is space

in the course after graduate students have enrolled. Finally, the Undergraduate Administrator (psy.undergrad@utoronto.ca) must receive an email from the Graduate Administrator confirming that the student has permission to enrol. The following information must be included in the email: Student name, student number, graduate course code and term (F or S), and the course subtitle. The student will then be enrolled into this undergraduate course code by the Department. It is the student's responsibility to contact the graduate instructor to initiate this process and to follow-up with both the graduate and undergraduate administrators to ensure their enrolment.

PSY405H1 - Individual Projects

A single semester intensive laboratory or applied research project for students who seek hands-on research experience to complement our regular course offerings. Each project culminates in a scholarly paper and oral presentation. Students must secure a faculty supervisor from the Dept. of Psychology and submit a completed application form that includes details about the project before the start of the semester. Application forms are available on the Department's website (<https://psych.utoronto.ca/programs-and-courses/undergraduate-course-information>) and must be emailed to the undergraduate office (psy.undergrad@utoronto.ca) by the end of the second week of September for fall projects, or by the end of the second week in January for winter projects. If you're registering for a summer project, please submit it by the end of the second week in May. This course is open to all students.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and the appropriate background in Psychology for the proposed work (e.g., PSY210H1 if the project is in the area of Developmental Psychology)

PSY405Y1 - Individual Projects

A full academic year intensive laboratory or applied research project for students who seek hands-on research experience to complement our regular course offerings. Each project culminates in a scholarly paper and oral presentation. Students must secure a faculty supervisor from the Dept. of Psychology and submit a completed application form that includes details about the project before the start of the academic year. Application forms are available on the Department's website (<https://psych.utoronto.ca/programs-and-courses/undergraduate-course-information>) and must be emailed to the undergraduate office

(psy.undergrad@utoronto.ca) by the end of the second week of September. This course is open to all students.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and the appropriate background in Psychology for the proposed work (e.g., PSY210H1 if the project is in the area of Developmental Psychology)

PSY406H1 - Individual Projects

A single semester intensive laboratory or applied research project for students who seek hands-on research experience to complement our regular course offerings. Each project culminates in a scholarly paper and oral presentation. Students must secure a faculty supervisor from the Dept. of Psychology and submit a completed application form that includes details about the project before the start of the semester. Application forms are available on the Department's website (<https://psych.utoronto.ca/programs-and-courses/undergraduate-course-information>) and must be emailed to the undergraduate office (psy.undergrad@utoronto.ca) by the end of the second week of September for fall projects, or by the end of the second week in January for winter projects. If you're registering for a summer project, please submit it by the end of the second week in May. This course is open to all students.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and the appropriate background in Psychology for the proposed work (e.g., PSY210H1 if the project is in the area of Developmental Psychology)

PSY406Y1 - Individual Projects

A full academic year intensive laboratory or applied research project for students who seek hands-on research experience to complement our regular course offerings. Each project culminates in a scholarly paper and oral presentation. Students must secure a faculty supervisor from the Dept. of Psychology and submit a completed application form that includes details about the project before the start of the academic year. Application forms are available on the Department's website (<https://psych.utoronto.ca/programs-and-courses/undergraduate-course-information>) and must be emailed to the undergraduate office (psy.undergrad@utoronto.ca) by the end of the second week of September. This course is open to all students.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and the appropriate background in Psychology for the proposed work (e.g.,

PSY210H1 if the project is in the area of Developmental Psychology)

PSY407H1 - Special Topics in Psychology

Hours: 36L

A lecture course providing in-depth examination of specific topics/themes relating to Psychology. Content in any given year depends on instructor. Priority is given to PSY Major program students during the first enrolment period.

Prerequisite: PSY100H1/ PSY100Y5/ (PSYA01H3 and PSYA02H3), and PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and a 0.5 PSY credit at the 200-level

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY408H1 - Special Topics in Psychology

Hours: 36L

A lecture course providing in-depth examination of specific topics/themes relating to Psychology. Content in any given year depends on instructor. Priority is given to PSY Major program students during the first enrolment period.

Prerequisite: PSY100H1/ PSY100Y5/ (PSYA01H3 and PSYA02H3), and PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and a 0.5 PSY credit at the 200-level

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY409H1 - Research Specialization: Theoretical Foundations

Hours: 24S

Addresses the central theoretical issues that structure contemporary research in each of the major areas of psychology. The aim is to provide an informal overview of the field as a whole. Enrolment is restricted to PSY Research Specialists.

Prerequisite: Enrolment in the PSY Research Specialist program, **and** PSY309H1, and one of PSY319H1/ PSY329H1/ PSY339H1/ PSY349H1/ PSY359H1/ PSY369H1/ PSY379H1/ PSY389H1

Corequisite: PSY400Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY410H1 - Developmental Psychology Seminar

Hours: 24S

Examination in depth of a limited topic within developmental psychology. Content in any given year depends on instructor. Course capacity is limited to 20 students and enrolment priority is given to PSY Specialists and Research Specialists.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and PSY210H1/ PSY210H5/ PSYB20H3

Exclusion: PSY410H5/ PSYD20H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY414H1 - Moral Development

Hours: 36L

A lecture course examining cognitive-developmental, psychoanalytic, sociobiological, behaviouristic and cultural-anthropological approaches to moral development. Issues covered include definitions of morality, the relationship between moral judgement and action, gender differences and commonalities, and the role of culture in moral development.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY210H1/ PSY210H5/ PSYB20H3

Exclusion: PSYD14H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY417H1 - Aging and Social Cognition

Hours: 36L

A lecture course examining theory and research on the social cognitive aspect of aging. Topics range from

impression formation and causal attributions to perceptions of control and emotions.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY210H1/ PSY210H5/ PSYB20H3
Exclusion: PSY415H5/ PSYC13H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY420H1 - Social Psychology Seminar

Hours: 24S

Examination in depth of a limited topic within social psychology. Content in any given year depends on instructor. Course capacity is limited to 20 students and enrolment priority is given to PSY Specialists and Research Specialists.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Exclusion: PSY420H5/ PSYD15H3/ PSYD16H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY421H1 - Person Perception

Hours: 36L

This lecture course discusses how we perceive, categorize, and form impressions of other people, relying on readings from primary sources in the scientific literature.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1, and one of PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1 or PSY280H1/ PSY280H5/ PSYB51H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY422H1 - Community Psychology & Advocacy

Hours: 24L

This course is designed for students who are eager to apply their knowledge of psychological science to social problems. Students will be introduced to the fundamentals of community psychology while also examining how social psychological theory and research can be applied to understand and address issues that affect communities. This course will help students develop the skills and confidence necessary to advocate successfully on public interest issues relevant to psychology. Students will also work in partners/teams with a community advocacy group to collaboratively address a specific problem or need of the organization. Through a guided process of practice and reflection, students will increase their self-efficacy and come to recognize their ability to use their psychological knowledge and skills to make change in the world. Classroom discussions will integrate community experiences with lecture material. Enrolment is by application (see psychology department website or contact the department for more information at psy.undergrad@utoronto.ca). Not eligible for CR/NCR option.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3 or one of SOC204H1/ POL352H1/ GGR271H1, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1, and one of PSY320H1/ PSY320H5/ PSY321H1/ PSY321H5/ PSYC14H3/ PSY322H1/ PSYC12H3/ PSY333H1/ PSY333H5/ PSY336H1/ PSY324H5

Breadth Requirements: Society and its Institutions (3)
Course Experience: Partnership-Based Experience

PSY424H1 - Social Psychology of Interpersonal Relationships

Hours: 36L

This lecture course focuses on the social psychology of interpersonal relationships between individuals, especially romantic or close relationships and friendships. It surveys what social psychologists have learned about the development, maintenance, disruption or dissolution of personal relationships, as well as current social psychological theories of interpersonal relationships.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1
Exclusion: PSY327H5/ PSYD11H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY425H1 - Self and Identity

Hours: 36L

The distinguishing feature of human consciousness is *self-consciousness* -- our ability to be aware of and interpret ourselves and our experiences. All our higher capabilities as a species rest upon this foundation. Self-consciousness allows us to develop an understanding of who we are as individuals and in relation to others. This lecture course brings together ideas and perspectives from across the social sciences to explore the nature of self-consciousness. The institutional relations and cultural practices that give shape to contemporary forms of identity and self-experience are also examined.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Exclusion: PSY325H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY426H1 - Motivational Theories in Social Psychology

Hours: 36L

With intensive reading and discussion of 'classic' and contemporary articles, this advanced lecture course in social psychology focuses on the central issues, methods, and findings in the study of motivation. Topics include self-regulation, achievement, and reward/punishment.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY427H1 - Media Psychology

Hours: 36L

This course in *critical media literacy* examines how we come to understand ourselves and our world, and learn to feel, evaluate, and act, through the simulative mediation of information and communication technologies. The aim is to provide students with a deeper understanding of the dynamic symbolic environment that surrounds them and in which they participate as both audience and producer.

The approach is multidisciplinary, drawing not only from psychology but a broad range of influential perspectives in the social sciences and humanities. The topics explored reveal how developments in the world of media are central to understanding changing forms of public and private life in the 21st century.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY428H1 - Critical Psychology

Hours: 36L

This course examines the place of psychology in broader society and culture. What are the consequences of our research and professional practices for how we understand and govern ourselves and others? What is the basis and extent of our authority and power to describe, define, and explain human behaviour and experience? How do our values direct our activities and interpretations as psychologists? How can we critically evaluate the assumptions, commitments, and achievements of our discipline in relation to real or imagined alternatives?

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY430H1 - Personality Seminar

Hours: 24S

Examination in depth of a limited topic within the area of personality. Content in any given year depends on instructor. Course capacity is limited to 20 students and enrolment priority is given to PSY Specialists and Research Specialists.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and PSY230H1/ PSY230H5/ PSYB30H3 or PSY240H1/ PSY240H5/ PSYB32H3

Exclusion: PSY430H5/ PSYD30H3/ PSYD32H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY435H1 - Environmental Psychology

Hours: 36L

This lecture course explores how psychologists can contribute to finding solutions to today's pressing environmental challenges. Topics include persuasion, community-based social marketing, social influence, social capital, and the many ways in which the physical environment affects psychological processes. The course takes a multi-scalar approach to the human-environment relationship, covering individual, community, cultural and global levels of scale, through the lens of complex dynamic systems theories.

Prerequisite: PSY100H1/ PSY100Y5/ (PSYA01H3 *and* PSYA02H3), *and* PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1 *or* registered in any one of ASMAJ0365, ASSPE0365, ASMAJ1107, ASMIN1254, ASMAJ1254, ASMIN1551 Subject POSTs

Recommended Preparation: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY440H1 - Seminar in Psychopathology and Clinical Science

Hours: 24S

Examination in depth of a limited topic within the field of psychopathology and clinical science. Content in any given year depends on instructor. Course capacity is limited to 20 students and enrolment priority is given to PSY Specialists and Research Specialists.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, *and* PSY230H1/ PSY230H5/ PSYB30H3 *or* PSY240H1/ PSY240H5/ PSYB32H3

Exclusion: PSY440H5/ PSYD33H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY450H1 - History of Psychology

Hours: 36L

This lecture course discusses the philosophical predecessors and early development of modern psychology, schools of thought, and shifts in areas of theory and research, as well as history and philosophy of science, in general.

Prerequisite: 1.0 PSY credit at the 200-level

Exclusion: PSYC85H3

Breadth Requirements: Society and its Institutions (3)

PSY455H1 - Psychological Research Now and Then

Hours: 36L

This course delves into some of the most influential experiments across psychology subfields by discussing how they were conceived, designed, and conducted. Students will learn how these classic findings shaped theory, how to reinterpret them with the benefit of the current knowledge in the field, as well as how and if their experimental designs can be modified to meet current scientific standards and address still open questions. Students will leave this course equipped to be both critical consumers and producers of scientific research. This course will combine lectures with student presentations.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, *and* PSY203H1/ PSYB70H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY460H1 - Seminar in Learning

Hours: 24S

Examination in depth of a limited topic in human or animal learning. Content in any given year depends on the instructor. Course capacity is limited to 20 students and enrolment priority is given to PSY Specialists and Research Specialists.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, *and* PSY260H1/ PSYB38H3

Breadth Requirements: Living Things and Their Environment (4)

PSY470H1 - Seminar in Human Memory

Hours: 24S

Examination in depth of a limited topic within the area of memory. Content in any given year depends on instructor. Course capacity is limited to 20 students and enrolment priority is given to PSY Specialists and Research Specialists.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1

Exclusion: PSYD50H3

Breadth Requirements: Thought, Belief and Behaviour (2)

JLP471H1 - Advanced Psycholinguistics

Hours: 24S

Seminar in advanced topics in psycholinguistics. Content varies from year to year. (Sponsored by the Departments of Linguistics and Psychology, but administered solely by the Dept. of Linguistics).

Prerequisite: JLP374H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY471H1 - Seminar in Cognition

Hours: 24S

An in-depth examination of current research and selected topics in cognitive psychology. Content in any given year depends on the instructor. Course capacity is limited to 20 students and enrolment priority is given to PSY Specialists and Research Specialists. There may be additional prerequisites based on the seminar topic given.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1

Exclusion: PSY471H5/ PSYD50H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY473H1 - Social Cognitive Neuroscience

Hours: 36L

Social cognitive neuroscience is an emerging interdisciplinary field that seeks to integrate theories of social psychology and cognitive neuroscience to

understand behaviour at three fundamentally interrelated levels of analysis (social, cognitive, and neural). Topics such as self-regulation, cooperation, decision-making, emotion, morality, and prejudice will be examined in this lecture course.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and one of PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1 or PSY290H1/ PSY290H5/ PSYB64H3/ HMB200H1/ PSL300H1

Exclusion: PSY353H5/ PSYD17H3

Recommended Preparation: PSY220H1/ PSY220H5/ PSYB10H3/ SOC213H1, and PSY326H1

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY474H1 - Computation in Psychology

Hours: 36L

This lecture course surveys computational perspectives on the mind and brain and introduces computational tools for connecting psychological and neural data to theory. Topics may include neural networks, probabilistic models, pattern recognition, and other techniques applicable to psychological research and general analysis. Basic familiarity with programming is recommended but not required.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3

Breadth Requirements: The Physical and Mathematical Universes (5)

PSY475H1 - Attention and Performance

Hours: 36L

This lecture course discusses a range of topics in visual cognition and human performance. Topics covered may include attention, working memory, spatial cognition, the processing of features and objects, and cognitive motor control in eye and limb movements.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and one of PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1 or PSY280H1/ PSY280H5/ PSYB51H3

Exclusion: PSYC52H3

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY480H1 - Seminar in Perception

Hours: 24S

An in-depth examination of current issues in perception (e.g. perceptual organization, object and face recognition, motion perception). Emphasis is on the psychological perspective, but integrates physiological and computational perspectives as well. Content in any given year depends on instructor. Course capacity is limited to 20 students and enrolment priority is given to PSY Specialists and Research Specialists.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and PSY280H1/ PSY280H5/ PSYB51H3

Exclusion: PSY480H5/ PSYD51H3

Breadth Requirements: Living Things and Their Environment (4)

PSY490H1 - Seminar in Behavioural Neuroscience

Hours: 24S

An in-depth examination of current issues in behavioural neuroscience (e.g. activity of neurons, sensory, motor, motivational, and higher cortical systems.). Content in any given year depends on instructor. Course capacity is limited to 20 students and enrolment priority is given to PSY Specialists and Research Specialists.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and PSY290H1/ PSY290H5/ PSYB64H3/ HMB200H1/ PSL300H1

Exclusion: PSY490H5/ PSYD66H3

Breadth Requirements: Living Things and Their Environment (4)

PSY492H1 - Neurobiology of Learning and Memory

Hours: 36L

Understanding the complexities of how the mammalian nervous system acquires and stores information and how it transforms this information into appropriate behavior is fundamentally important to our understanding of both animal and human behavior. This lecture course explores

empirical and theoretical contributions to our understanding of the neural basis of learning and memory.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and one of PSY260H1/ PSYB38H3 or PSY290H1/ PSY290H5/ PSYB64H3/ HMB200H1/ PSL300H1
Breadth Requirements: Living Things and Their Environment (4)

PSY493H1 - Cognitive Neuroscience

Hours: 36L

This is a capstone lecture course surveying research on how the mind arises from the brain. The first objective of the course is to understand how processes in human brains (ranging from the firing of a single neuron to the dynamics of billions) support cognitive abilities (such as recognizing a face, remembering a birthday from childhood, understanding the words in a spoken lecture, or planning a route home from class). The second objective of the course is to understand the methods of contemporary cognitive neuroscience research, to enable students to read primary literature and to understand ongoing debates.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and one of PSY260H1/ PSYB38H3 or PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1 or PSY290H1/ PSY290H5/ PSYB64H3/ HMB200H1/ PSL300H1
Exclusion: PSY393H5/ PSYB55H3/ PSYC31H3
Breadth Requirements: Living Things and Their Environment (4)

PSY494H1 - Physiology and Psychology of Emotion

Hours: 36L

This lecture course discusses the role of brain and body in the expression and experience of emotion in humans considered through the experimental, physiological, theoretical, and clinical literatures.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and

one of PSY260H1/ PSYB38H3 or PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1 or PSY290H1/ PSY290H5/ PSYB64H3/ HMB200H1/ PSL300H1

Exclusion: PSYC18H3

Breadth Requirements: Living Things and Their Environment (4)

PSY495H1 - Sex and the Brain

Hours: 36L

This lecture course explores the scientific literature underlying the concept that female/male, gay/straight, and transgendered behaviours are based on brain differences. Original scientific papers will be read in close detail for design and interpretation of the experiments. The goal is to gain an understanding of the science and psychology underlying sex/gender, popular conceptions of sex, and the sexual brain. Topics include: the making of sex, hormone action, brain-based sexual behaviours, sex and cognition, and sex and sexuality/gender identification.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and PSY290H1/ PSY290H5/ PSYB64H3/ HMB200H1/ PSL300H1

Exclusion: PSY354H5/ PSY395H5

Breadth Requirements: Thought, Belief and Behaviour (2)

PSY496H1 - Cognitive Dysfunction in Neurological Disorders

Hours: 36L

This lecture course provides an in-depth examination of the cognitive dysfunction found in neurological disorders, including Alzheimer's Disease, Parkinson's Disease, and Schizophrenia. The course focuses on how cognitive impairments relate to neuropsychological models of the specific disease (specifically how these models provide insights into the biological mechanisms underlying the cognitive symptoms) and cognition, more broadly.

Prerequisite: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ ECO220Y5/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, and one of PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1 or PSY290H1/ PSY290H5/ PSYB64H3/ HMB200H1/ PSL300H1

Breadth Requirements: Living Things and Their Environment (4)

PSY497H1 - Seminar in Biological Timing

Hours: 24S

This is an advanced seminar course that examines the mechanisms and significance of timing and timekeeping at several levels of organization in living organisms. Topics include the roles of clocks and oscillations in physiology and behaviour, and the importance of timing in sensorimotor integration, memory, decision making, and health. Course capacity is limited to 20 students and enrolment priority is given to PSY Specialists and Research Specialists.

Prerequisite: PSY202H1/ ECO220Y1/ SOC252H1/ STA221H1/ ECO220Y5/ PSY202H5/ STA221H5/ PSYC08H3/ STAB27H3/ STAC32H3, and PSY290H1/ PSY290H5/ PSYB64H3/ HMB200H1/ PSL300H1

Recommended Preparation: PSY397H1

Breadth Requirements: Living Things and Their Environment (4)

Public Policy

Introduction

Solving real-world policy challenges requires the use of multi-disciplinary tools to analyze problems, determine the best means to deal with those problems, and decide on the best course of action. An undergraduate Major in Public Policy provides a unique opportunity for students in Social Science disciplines to think in an interdisciplinary way, by drawing on theories and approaches, as well as tool kits developed in the core disciplines of Economics and Political Science, and beyond. Students in this program develop theoretical and applied reasoning skills in policy analysis, as well as a solid grounding in quantitative methods and research.

Regarding Public Policy Programs

The Major program in Public Policy is offered jointly by the Munk School of Global Affairs and Public Policy, the Department of Economics, and the Department of Political Science. Students may enrol after their first or second year of undergraduate studies, and must meet the prerequisite conditions for all second-year and higher courses.

The Program Director and Program Assistant are available for consultation. For inquiries or an appointment call the Program and Events Coordinator, Simone DeFacendis at 416-946-0326 or send an email to publicpolicyundergrad.munk@utoronto.ca.

Public Policy Programs

Major in Public Policy (Arts Program) - ASMAJ2660

The Major in Public Policy is offered jointly by the Munk School of Global Affairs & Public Policy, the Department of Economics, and the Department of Political Science. Students enroll after first year, and must meet the prerequisite conditions for all second-year and higher courses.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade/minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

ECO101H1 & ECO102H1 (with an average final mark of at least 67%) or ECO105Y1 (with a final mark of at least 80%), and

One of the following four options (1.0 credit):

- POL101Y1, or 1.0 credit from POL101H1, POL106H1, POL107H1 or POL109H1, with a grade of 67% in each course
- 1.0 credit from Munk One courses (MUN105Y1, MUN101H1, MUN102H1), with a grade of 75% in each course
- 1.0 credit from Trinity One Public Policy courses (TRN160Y1 or TRN161Y1) with a grade of 75%
- 1.0 credit from Vic One Pearson policy stream courses (VIC181H1, VIC183H1, VIC184H1 or VIC185H1) with a grade of 75% in each course

To ensure that students admitted to the program will be prepared, applicants with a final grade lower than the minimum grades stated above will not be considered for admission. Please note that obtaining this minimum final grade does not guarantee admission to the program.

Notes:

- Students entering from Munk One/Trinity One/Vic One course options will be ineligible to take upper year POL courses until they have completed POL214Y1 or (POL218H1, POL219H1)
- Students expecting to choose ECO courses in their second year or higher must complete MAT133Y1 or the combination of MAT135H1 and MAT136H1 in their first year, to meet required prerequisites for ECO courses. If MAT133Y1 or (MAT135H1, MAT136H1) is not taken, students will not be eligible to enrol in 200+-level ECO courses, and must take PPG200H1 to fulfil program requirements in lieu of ECO200Y1/ECO204Y1/ECO206Y1.

Completion Requirements:

(7.5 credits)

First Year:

1. One of the following four options (1.0 credit):

- POL101Y1, or 1.0 credit from POL101H1, POL106H1, POL107H1 or POL109H1, with a grade of 67% in each course
 - 1.0 credit from Munk One courses (MUN105Y1, MUN101H1, MUN102H1), with a grade of 75% in each course
 - 1.0 credit from Trinity One Public Policy courses (TRN160Y1 or TRN161Y1) with a grade of 75%
 - 1.0 credit from Vic One Pearson policy stream courses (VIC181H1, VIC183H1, VIC184H1 or VIC185H1) with a grade of 75% in each course
2. ECO101H1 & ECO102H1 (with a combined average of at least 67%) or ECO105Y1 (with a final mark of at least 80%).
 3. Students expecting to choose ECO courses in their second year or higher must complete MAT133Y1 or the combination of MAT135H1 and MAT136H1 in their first year, to meet required prerequisites for ECO courses. If MAT133Y1 or (MAT135H1, MAT136H1) is not taken, students will not be eligible to enrol in 200+-level ECO courses, and must take PPG200H1 to fulfil program requirements in lieu of ECO200Y1/ECO204Y1/ECO206Y1.

Second Year:

1. ECO200Y1/ECO204Y1/ECO206Y1/PPG200H1
2. Students expecting to choose ECO courses in their second year or higher must complete MAT133Y1 or the combination of MAT135H1 and MAT136H1 in their first year, to meet required prerequisites for ECO courses. If MAT133Y1 or (MAT135H1, MAT136H1) is not taken, students will not be eligible to enrol in 200+-level ECO courses, and must take PPG200H1 to fulfil program requirements in lieu of ECO200Y1/ECO204Y1/ECO206Y1.
3. 1.0 credit from ECO220Y1, (POL222H1+POL232H1), SOC202H1, STA220H1, STA221H1, STA248H1, STA255H1, STA261H1
4. One of the following three options (1.0 credit):
 - POL214Y1

- 1.0 credit from MUN200H1, POL201H1, JPI201H1, POL214H1, POL223H1, POL224H1, of which at least 0.5 credit must be POL214H1 or POL224H1.
- POL218H1 and POL219H1

Third and Fourth Years:

1. PPG301H1
2. PPG401H1
3. Remaining courses to reach the 7.5 credits will be drawn from 300+-level drawn from Economics, Political Science, Sociology, or related disciplines.

A non-exhaustive list of eligible courses includes:

Economics:

ECO313H1/ECO314H1/ECO320H1/ECO324Y1/
ECO331H1/ECO333H1/ECO334H1/ECO336Y1/
ECO339Y1/ECO349H1/ECO364H1/ECO365H1/
ECO369H1/ECO402H1/ECO403H1/ECO407H1/
ECO410H1/ECO414H1/ECO416H1/ECO425H1/
ECO426H1/ECO434H1/ECO439H1

Political Science:

POL301H1/POL302H1/POL305H1/POL306H1/
POL307H1/POL308H1/POL309H1/POL312Y1/
POL312H1/POL313H1/POL314Y1/POL315H1/
POL316Y1/POL316H1/POL317Y1/POL318H1/
POL321H1/POL325H1/POL326H1/POL327H1/
POL328H1/JPA331H1/POL332Y1/POL334H1/
POL336H1/POL337Y1/POL337H1/POL340H1/
POL341H1/POL344H1/POL347H1/POL351Y1/
POL353H1/POL356Y1/POL357H1/POL358H1/
POL359H1/JPR364H1/POL370H1/POL371H1/
POL377H1/POL386H1/POL405H1/POL408H1/
POL409H1/POL411H1/POL413H1/POL417H1/
POL418H1/POL423H1/POL425Y1/POL431H1/
POL439H1/POL447Y1/POL448H1/POL450H1/
JPA453H1/JPF455Y1/JPF455H1/JPF456H1/
POL456H1/JPR457H1/POL457Y1/POL458H1/
POL459H1/POL463H1/POL474H1/POL475H1/
POL480Y1/POL481Y1/POL482H1

With the approval of the program director, students can take public policy oriented courses outside this list.

immigrants create competition that makes wages drop?
 Economic demography – applying economic analysis to the study of populations – can help us understand all these questions and more. Among other topics, this class will examine how pension systems, health care, immigration policy and economic growth, marriage and divorce laws and women's labor force participation relate to public policy.

Restricted to first-year students. Not eligible for CR/NCR option.

Public Policy Courses

MUN195H1 - The Economics of Birth, Death and Everything in Between

Hours: 24L

Does welfare really encourage people to have more kids?
 How do contraception bans affect women's work? Do new

Breadth Requirements: Society and its Institutions (3)
Course Experience: University-Based Experience

PPG200H1 - Microeconomics for Policy Analysis

Hours: 24L

The objectives are: (1) To provide students with a foundation in microeconomic analysis and; (2) To demonstrate how this foundation can be applied to design, predict the effects of and evaluate public policies.

Students will be equipped to understand the main issues on a range of policy topics such as taxation, social insurance, welfare and income support programs.

Prerequisite: (ECO101H1, ECO102H1)/ ECO105Y1
Exclusion: ECO200Y1, ECO204Y1, ECO206Y1
Recommended Preparation: POL101Y1/ 1.0 credit from POL101H1, POL106H1, POL107H1 or POL109H1/ MUN105Y1/ (MUN101H1, MUN102H1)/ TRN160Y1/ TRN161Y1/ 1.0 credit from VIC181H1, VIC183H1, VIC184H1 or VIC185H1
Breadth Requirements: Society and its Institutions (3)

PPG301H1 - Introduction to Public Policy

Hours: 24L

The course introduces students to the study of public policy, the policy process and our policy institutions in Canada. The course examines how issues emerge, how important ideas are framed, priorities are established, and agendas are set and managed. It explores how institutions – formal and informal rules which enable and constrain actors – shape policy-making in Canada.

Prerequisite: (1) One of: ECO200Y1/ ECO204Y1/ ECO206Y1/ PPG200H1; (2) One of: ECO220Y1/ (POL222H1, POL232H1)/ SOC202H1/ STA220H1/ STA221H1/ STA248H1/ STA255H1/ STA261H1; (3) One of: POL214Y1/ (1.0 credit from POL201H1, JPI201H1, POL214H1, POL223H1, POL224H1, of which at least 0.5 credit must be POL214H1 or POL224H1)/ (POL218H1, POL219H1)
Breadth Requirements: Society and its Institutions (3)

PPG310H1 - Special Topics in Public Policy

Hours: 24L

This course examines a selected topic in public policy, based on the research interests of an individual instructor. Both the topics and the instructor may change each time the course is offered.

Prerequisite: PPG200H1
Breadth Requirements: Society and its Institutions (3)

PPG401H1 - The Role of Government

Hours: 30L

This course explores the government's role in promoting efficiency and equity in both the financing and delivery of public policy goals. It explores the conditions when government involvement is important, the policy levers available to government in promoting social policy, market failures, and conditions for efficiency. It examines the role of government in many of the major areas of social policy such as health care, education, redistribution, the environment, financial regulations and other important issues.

Prerequisite: PPG301H1
Corequisite: PPG301H1
Recommended Preparation: ECO200Y1/ ECO204Y1/ ECO206Y1/ PPG200H1
Breadth Requirements: Society and its Institutions (3)

PPG410H1 - Advanced Topics in Public Policy

Hours: 24L

This course examines a selected advanced topic in public policy, based on the research interests of an individual instructor. Both the topics and the instructor may change each time the course is offered.

Prerequisite: PPG200H1, PPG301H1
Breadth Requirements: Society and its Institutions (3)

Religion

Faculty List

University Professor

J.S. Kloppenborg, MA, PhD, FRSC (T)

Professors Emeriti

A.T. Davies, BA, BD, STM, PhD (V)

C.T. McIntire, MA, M Div, PhD (V)

G.P. Richardson, B Arch, BD, PhD, FRSC, FRAIC (U)

L.E. Schmidt, MA, PhD (SM)

R.E. Sinkewicz, AM, M Div, D Phil (CMS)

J.M. Vertin, MA, STL, PhD (SM)

Professor and Chair of the Department

P. Klassen, MA, PhD, FRSC (V)

Professor and Associate Chair, Undergraduate

S. Raman, MA, PhD

Assistant Professor, Teaching Stream and Undergraduate Student Advisor

S. Gallant, MA, PhD

Professors

S. Coleman, MA, PhD

J. Dicens, MA, PhD

H. Fox, MS, MA, PhD

R. Gibbs, MA, PhD (U)

K. H. Green, MA, PhD (U)

M. Hewitt, MA, PhD (T)

A. Mittermaier, MA, PhD

J. Newman, MA, PhD (V)

K. O'Neill, MA, PhD

W. Saleh, MA, PhD

J. Schipper, PhD

N. Seidman, MA, PhD

Associate Professors

R. Charles, M Div, MTS, PhD

A. Dhand, MA, PhD (V)

C. Emmrich, MA, D Phil (University of Toronto Mississauga)

F. Garrett, MA, PhD

J. Harris, MA, PhD

N. Junior, BSFS, MPA, M Div, PhD

J. Marshall, MA, PhD (U)

R. Marshall, MIA, D Phil

N. Moutaz, M Phil, PhD

A. Rao, MA, PhD (University of Toronto Mississauga)

K. Ruffle, MA, PhD (University of Toronto Mississauga)

J. B. Scott, PhD (University of Toronto)

Mississauga)

K. Smith, MA, PhD (University of Toronto Mississauga)

S. Virani, MA, PhD (University of Toronto Mississauga)

Associate Professors (Teaching Stream)

S. Goldberg, MA, PhD

Y. Nizri, BFA, PhD

Assistant Professors

K. Barclay, MA, PhD

S. Dost, AM, PhD (University of Toronto Scarborough)

A. Graheli, MA, PhD

A. Hampton, MA, PhD

S. Kim, MA, PhD

R. Lindsay, MA, PhD

S. Verskin, PhD

K. J. White, MA, PhD

Assistant Professors (Teaching Stream)

S. Gallant, MA, PhD

E. Mills, BSc, D Phil

The Study of Religion

The Department for the Study of Religion (DSR) is a vibrant site of research and teaching where you can study diverse religious and spiritual traditions in their historical, cultural, political, and textual contexts. As a religion department located in one of the most multi-religious and multi-cultural cities in the world, our undergraduate courses attract a remarkably wide range of students curious about religion and how to study it in university. Our courses cover numerous traditions, including Buddhism, Christianity, Hinduism, Indigenous spiritualities, Islam, and Judaism, and also focus on existential questions, such as the nature of happiness, narratives of creation, evil and suffering, and love, sex and family. Some of our students may have grown up with religious traditions while many have no religious affiliation or background whatsoever; every student is welcome in our classes. Our courses equip you with the critical and methodological skills, writing ability, and language training that you need. DSR students learn to ask how power, creativity, and contestation are central to religion and to examine how religion is connected to other categories of experience such as gender, sexuality, and racialization. DSR undergraduate students combine religion programs and courses with a wide variety of other programs of study, including environmental studies, political science, computer science, women and gender studies, and college programs such as international relations and cognitive science.

The DSR is also proud to be a part of The Arts & Science Internship Program (ASIP), which is a professional work-integrated learning program for Faculty of Arts & Science students enrolled in specific programs of study. This

includes the following DSR programs: Religion Major (ASMAJ0151), Religion Specialist (ASSPE0151).

Students enrolled in the ASIP stream complete mandatory Professional Development programming plus a minimum of 12 and maximum of 20 months of paid, full-time, academically related work experience. The time to degree completion for students enrolled in ASIP is normally 5 years. ASIP is administered by the Faculty of Arts & Science's Experiential Learning & Outreach Support (ELOS) Office. The ASIP stream of each program is limited enrolment. Students will typically be admitted to the ASIP stream of their program for the Fall term of Year 2 of study. Please refer to the [ASIP Eligibility page](#) for further details for detailed entry requirements.

More detailed information concerning the department, our programs, particular courses, and our Religion Undergraduate Students' Association (RUSA) can be found on our website:
<https://www.religion.utoronto.ca/undergraduate>.

Undergraduate Program Assistant:
Phoebe To
Jackman Humanities Building, Room 310
religion.undergrad@utoronto.ca (416-978-2395)

Undergraduate Student Advisor:
Dr. Sarah Gallant
Jackman Humanities Building, Room 216
sarah.gallant@utoronto.ca

Your Pathways in the Study of Religion

100-Level Courses

Our 100-level courses introduce you to the study of religion, while tackling existential questions such as life, death, embodiment, the mind, and belief. We aim to provide communities of learning that provide foundational skills such as critical thinking, close reading, active listening, writing, oral presentation, and discussion. You can choose larger lecture classes and smaller first-year seminars. Most of our first- and second-year courses also provide extra support through the Writing-Integrated Teaching program.

200-Level Courses

Our 200-level courses give you entryways into specific religious traditions, including Buddhism, Christianity, Indigenous Religions, Hinduism, Islam, and Judaism, as well as specific 'lenses' into the study of religion, for instance through language or music. We also teach you different methodological and disciplinary approaches through our 'Study of Religion' course, which is required for all Majors and Specialists. Overall, we encourage you

to think comparatively about what counts as 'religion' in specific contexts. We offer both large lecture classes with tutorials and some smaller classes. Students can take a 200-level course without having taken any prior RLG courses.

300-Level Courses

Our 300-level courses focus on providing you with skills of critical thinking while learning about religion. We encourage you to think about significant themes that cross-cut religious traditions, such as migration, politics, human rights, sexuality, pilgrimage, spaces, visions and revelations, and so on, and we often draw on forms of experiential learning and multi-media platforms for presenting the results of lengthier research projects. All 300-level courses normally presuppose that a student has already completed, by the first day of the course, at least 4.0 credits in any field.

400-Level Courses

Our 400-level courses consist of smaller and intensive seminars, where you engage closely with each other and with instructors. We encourage you to engage in advanced critical reflection on how and why you study religion in an academic setting and to develop your own voice as a thinker who can speak and write publicly about religion. We offer a Religion in the Public Sphere (RPS) community-engaged learning course, as well as seminars designed solely for undergraduates and several joint grad/undergrad seminars. 400-level courses are intended primarily but not exclusively for Specialists and Majors who have already completed several RLG courses. That said, students who have taken cognate courses, e.g., anthropology, history, philosophy, are welcome to enrol.

Religion Programs

Buddhist Studies Specialist (Arts Program) - ASSPE1525

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10.0 credits)

- 1.0 credit from [RLG100H1](#)/ [RLG101H1](#)/ [RLG102H1](#)/ [RLG103H1](#)/ [RLG104H1](#)/ [RLG105H1](#)/ [RLG106H1](#)/ [RLG107H1](#)/ [RLG108H1](#)/ [RLG109H1](#)/ [RLG195H1](#)/ [RLG196H1](#)/ [RLG197H1](#)/ [RLG198H1](#)/ [RLG199H1](#)/ [JRC199H1](#)/ [JRN199H1](#).
- [RLG200H1](#)

3. RLG206H1
4. 0.5 credit from RLG209H1/ RLG211H1/ RLG212H1/ RLG213H1
5. Two consecutive language courses (2.0 credits) in one of: Chinese, Japanese, Korean, Sanskrit, Pali or Tibetan.

Chinese: EAS100Y1, EAS101Y1, EAS200Y1, EAS201H1, EAS300Y1

Japanese: EAS120Y1, EAS121H1, EAS220Y1, EAS221H1, EAS320Y1

Korean: EAS110Y1, EAS210Y1, EAS211Y1, EAS212H1, EAS310Y1, EAS410Y1

Sanskrit: RLG260H1, RLG263H1, RLG359H1, RLG360H1

Pali: RLG264H1, RLG265H1, and an additional 1.0 credit in consultation with the Department for the Study of Religion

Tibetan: RLG261H1, RLG262H1, RLG370Y1/ (RLG377H1, RLG378H1)

6. 4.5 credits chosen from the list below. At least 2.5 credits must be RLG courses. At least 2.5 credits must be taken at the 300-level or higher.

Second year courses: RLG205H1, EAS209H1, FAH260H1, HIS280Y1, HIS282Y1, HIS283Y1, NEW214H1/ BPM214H1, NEW232H1/ BPM232H1, PHL237H1.

Third year courses: RLG311H1, RLG361H1, RLG363H1, RLG366H1, RLG368H1, RLG372H1, RLG373H1, RLG374H1, RLG375H1, RLG376H1, RLG379H1, RLG370H5, RLG371H5, RLG373H5, RLG374H5, EAS338H1, EAS361H1, FAH363H1, FAH364H1, JNR301H1, NEW332H1/ BPM332H1, NEW333H1/ BPM333H1, NEW339H1/ BPM339H1, PHL337H1.

7. 0.5 credit at the 400 level, selected from the following: RLG461H1, RLG462H1, RLG463H1, RLG465H1, RLG468H1, RLG469Y1, RLG470H5, FAH461H1, HIS485H1, NEW433H1/ BPM433H1.
8. RLG404H1 or RLG405H1 or RLG406H1 or RLG407H1 or RLG426H1, a capstone integrative course. (Note: this does not fulfil the 400-level requirement as described in #7 above.)

Other courses from UTM/UTSC/other Departments may be considered with permission.

Religion Specialist (Arts Program) - ASSPE0151

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Religion Specialist in the Summer after Year 2 and have completed RLG200H1 prior to ASIP entry.

Completion Requirements:

(10.0 credits)

1. 1.0 credit from RLG100H1/ RLG101H1/ RLG102H1/ RLG103H1/ RLG104H1/ RLG105H1/ RLG106H1/ RLG107H1/ RLG108H1/ RLG109H1/ RLG195H1/ RLG196H1/ RLG197H1/ RLG198H1/ RLG199H1/ JRC199H1/ JRN199H1.
2. RLG200H1
3. 0.5 credit from the following traditions: RLG201H1 Indigenous Spiritualities and Religions/ RLG202H1 Judaism/ RLG203H1 Christianity/ RLG204H1 Islam/ RLG205H1 Hinduism/ RLG206H1 Buddhism/ RLG208H1 Sikhism/ RLG241H1 The Earliest Christians.
4. 0.5 credit from RLG209H1/ RLG211H1/ RLG212H1/ RLG213H1.
5. 0.5 credit in any other 200-level Department for the Study of Religion courses (excluding the following language courses: MHB255H1, NML255H1, MHB256H1, NML256H1, RLG260H1, RLG263H1, RLG261H1, RLG262H1, RLG264H1, RLG265H1).
6. 3.5 Department for the Study of Religion credits at the 300+ level. Students should develop a focused program of study and may consult the Associate Chair or program office for advice.
7. 0.5 credit at the 400-level in your area of focus selected from Department for the Study of Religion courses.
Judaism: RLG430H1, RLG431H1, RLG432Y1, RLG433H1, RLG434H1, RLG435H1, RLG448H1, RLG453H1
Christianity: RLG441H1, RLG447H1, RLG448H1, RLG449H1, RLG451H1, RLG452H1, RLG453H1, RLG454H1, RLG455H1
Islam: RLG458H1, RLG481H1
Hinduism: RLG460H1, RLG462H1, RLG471H1, RLG474H1, RLG476H1
Buddhism: RLG461H1, RLG462H1, RLG463H1, RLG465H1, RLG468H1, RLG469Y1, RLG474H1, RLG479H1
8. 2.5 additional credits of Department for the Study of Religion courses at any level

9. 0.5 credit from the following capstone integrative courses: RLG404H1, RLG405H1, RLG406H1, RLG407H1, RLG426H1 (note: this does not fulfil the 400-level requirement as described in #7 above.)

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

- Courses with RLG, JAR, JCR, JNR, JPR, JRC, JRN, and JSR designators count as Department for the Study of Religion courses.
- 2.0 credits of related courses offered by other academic units may be counted towards the fulfillment of the program. The list of eligible courses includes:
 - ANT356H1, ANT386H1, ANT426H1, ANTC31H3, ANTC33H3, FAH215H1, FAH216H1, FAH319H1, FAH328H1, FAH381H1, SMC350H1, CLT350H1, SMC250H1, CLT250H1, SMC200H1, CHC200H1, SMC203Y1, CHC203Y1, SMC215H1, CHC215H1, SMC327H1, CHC327H1, SMC305H1, CHC305H1, SMC307Y1, CHC307H1, SMC309H1, CHC309H1, SMC372H1, CHC372H1, SMC371H1, CHC371H1, SMC456H1, CHC456H1, CLA204H1, CLA305H1, CLA308H1, CLA310H1, CLAA05H3, CLAA06H3, CLAC22H3, EAS338H1, EAS361H1, ENGC16H3, ENGC17H3, GASB30H3, HIS208Y1, HIS220Y1, HIS309H1, HIS323H1, HIS338H1, HIS361H1, HIS403H1, HIS464H1, HISD63H3, HISD64H3, ITA311H1, ITA312H1, ITA320H1, ITA321H1, ITA332H1, CJS200H1, CJS290H1, CJS390H1, CJS400H1, CJS490H1, CJS491H1, NMC252H1, NMC270H1, NMC273Y1, NMC284H1, NMC342H1, NMC351H1, NMC360H1, NMC361H1, NMC367H1, NMC370H1, NMC374H1, NMC376H1, NMC380H1, NMC381H1, NMC382Y1, NMC384H1, NMC484Y1, NML220Y1, NML250Y1, NML320H1, NML350H1, NML351H1, NML357H1, NML358H1, NML420Y1, NML452H1, NML459H1, NEW214H1, BPM214H1, NEW232Y1, BPM232H1, NEW302Y1, NEW339H1, BPM339H1, PHL235H1, PHL237H1, PHL305H1, PHL306H1, PHL307H1, PHL308H1, PHL335H1, PHL338H1, PHL414H1, PHL478H1, SLA302H1, SLA314H1, SLA317H1, SLA400H1, SLA449H1, SOC250Y1
- It is highly recommended that Religion Specialists who are interested in pursuing graduate training

also complete two full years of a relevant foreign language. This should be discussed early in a student's program with the Associate Chair or other Religion professors.

- Up to two language courses totaling 1.0 credit (in Pali (RLG264H1, RLG265H1), Sanskrit (RLG260H1, RLG263H1, RLG359H1, RLG360H1, RLG474H1), Tibetan (RLG261H1, RLG262H1) or Modern Hebrew (MHB155H1, MHB156H1, MHB255H1, MHB256H1, MHB355H1, MHB356H1) will count toward the Department for the Study of Religion courses required to complete any Specialist Program in Religion. If a student wishes a different language (not one of those mentioned here) to count toward completing these programs they should consult with the Associate Chair, Undergraduate.
- Please note that UTM and UTSC courses do not automatically count towards completion of a RLG program (except the Buddhist Studies Major and Specialist). If you have taken or are planning on taking a course at another campus and would like it to count exceptionally towards your program requirements, please e-mail the Undergraduate Program Assistant at religion.undergrad@utoronto.ca.

Buddhist Studies Major (Arts Program) - ASMAJ1525

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits)

1. 1.0 credit from RLG100H1/ RLG101H1/ RLG102H1/ RLG103H1/ RLG104H1/ RLG105H1/ RLG106H1/ RLG107H1/ RLG108H1/ RLG109H1/ RLG195H1/ RLG196H1/ RLG197H1/ RLG198H1/ RLG199H1/ JRC199H1/ JRN199H1.
2. RLG200H1
3. RLG206H1
4. 4.0 credits chosen from the following list; at least 3.0 credits of which must be Department for the Study of Religion courses (RLG, JAR, JCR, JNR, JPR, JRC, JRN, or JSR designators). 3.0 credits must be taken at the 300-level or higher.

Second year courses: RLG205H1, FAH260H1, EAS209H1, HIS280Y1, HIS282Y1, HIS283Y1, NEW214H1/ BPM214H1, NEW232H1/ BPM232H1, PHL237H1.

Third year courses: RLG311H1, RLG361H1, RLG363H1, RLG366H1, RLG368H1, RLG371H1, RLG372H1, RLG373H1, RLG374H1, RLG375H1, RLG376H1, RLG379H1, RLG370H5, RLG371H5, RLG373H5, RLG374H5, EAS338H1, EAS361H1, FAH363H1, FAH364H1, JNR301H1, NEW332H1, BPM332H1, NEW333H1, BPM333H1, NEW339H1, BPM339H1, PHL337H1.

5. 0.5 credit at the 400-level, selected from the following: RLG461H1, RLG462H1, RLG463H1, RLG465H1, RLG468H1, RLG469Y1, RLG470H5, FAH461H1, HIS485H1, NEW433H1, BPM433H1.
6. 0.5 credit from the following capstone integrative courses: RLG404H1, RLG405H1, RLG406H1, RLG407H1, RLG426H1 (Note: this does not fulfil the 400-level requirement as described in #5 above.)

Other courses from UTM/UTSC/other Departments may be considered with permission.

Note:

- Up to two language courses totaling 1.0 credit in Pali (RLG264H1, RLG265H1), Sanskrit (RLG260H1, RLG263H1, RLG359H1, RLG360H1, RLG474H1), Tibetan (RLG261H1, RLG262H1) or Modern Hebrew (MHB155H1, MHB156H1, MHB255H1, MHB256H1, MHB355H1, MHB356H1) will count toward the Department for the Study of Religion courses required to complete any Major Program in Religion. If a student wishes a different language (not one of those mentioned here) to count toward completing these programs they should consult with the Associate Chair, Undergraduate.

Islamic Studies Major (Arts Program) - ASMAJ1359

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(6.5 credits)

1. 1.0 credit from RLG100H1 / RLG101H1 / RLG102H1 / RLG103H1 / RLG104H1 / RLG105H1 / RLG106H1 / RLG107H1 / RLG108H1 / RLG195H1 / RLG196H1 / RLG197H1 / RLG198H1 / RLG199H1 / JRC199H1 / JRN199H1.
2. RLG200H1
3. RLG204H1

4. 0.5 credit from RLG209H1 / RLG211H1 / RLG212H1 / RLG213H1
5. 3.5 credits from the following list, of which 2.0 credits must be at the 300+ level: NMC103H1, NMC271H1, NMC273Y1, NMC275H1, NMC348Y1, NMC355H1, NMC374H1, NMC376H1, NMC377Y1, NMC381H1, NMC385H1, NMC393H1, NMC396H1, NMC471H1, NMC475H1; PHL336H1; RLG312H1, RLG350H1, RLG351H1, RLG352H1, RLG355H1, RLG356H1, RLG458H1; FAH265H1, FAH326H1.
6. 0.5 credit from the following capstone integrative courses: RLG404H1, RLG405H1, RLG406H1, RLG407H1, RLG426H1

Notes:

- Special Topics courses with Islam content (like NMC277H1 or RLG412H1) will also count towards the program.
- A maximum of two language courses totaling 1.0 credit in Pali (RLG264H1, RLG265H1), Sanskrit (RLG260H1, RLG263H1, RLG359H1, RLG360H1, RLG474H1), Tibetan (RLG261H1, RLG262H1) or Modern Hebrew (MHB155H1, MHB156H1, MHB255H1, MHB256H1, MHB355H1, MHB356H1) will count toward the Department for the Study of Religion courses required to complete any Major Program in Religion. If a student wishes a different language (not one of those mentioned here) to count toward completing these programs they should consult with the Associate Chair, Undergraduate.
- Please note that UTM and UTSC courses do not automatically count towards completion of a RLG program (except the Buddhist Studies Major and Specialist). If you have taken or are planning on taking a course at another campus and would like it to count exceptionally towards your program requirements, please e-mail the Undergraduate Program Assistant at religion.undergrad@utoronto.ca.

Religion Major (Arts Program) - ASMAJ0151

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic

Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Religion Major in the Summer after Year 2 and have completed RLG200H1 prior to ASIP entry.

Completion Requirements:

(6.5 credits)

1. 1.0 credit from RLG100H1/ RLG101H1/ RLG102H1/ RLG103H1/ RLG104H1/ RLG105H1/ RLG106H1/ RLG107H1/ RLG108H1/ RLG109H1/ RLG195H1/ RLG196H1/ RLG197H1/ RLG198H1/ RLG199H1/ JRC199H1/ JRN199H1.
2. RLG200H1
3. 0.5 credit from one of the following traditions: RLG201H1 Indigenous Spiritualities and Religions/ RLG202H1 Judaism/ RLG203H1 Christianity/ RLG204H1 Islam/ RLG205H1 Hinduism/ RLG206H1 Buddhism/ RLG208H1 Sikhism/ RLG241H1 The Earliest Christians
4. 2.0 credits from 300+ level Department for the Study of Religion courses, at least 0.5 credit of which must be in the same tradition as was chosen from #3 above.

Indigenous Spiritualities and Religions:

RLG331H1

Judaism: JRN301H1, RLG313H1, RLG320H1, RLG321H1, RLG325H1, RLG326H1, RLG327H1, RLG328H1, RLG330H1, RLG338H1, RLG339H1, RLG341H1, RLG342H1, RLG343H1, RLG344H1, RLG345H1, RLG346H1, RLG347H1, RLG348H1, RLG349H1, RLG379H1, RLG430H1, RLG431H1, RLG432Y1, RLG433H1, RLG434H1, RLG435H1, RLG448H1, RLG453H1

Christianity: JCR303H1, RLG313H1, RLG318H1, RLG320H1, RLG322H1, RLG323H1, RLG324H1, RLG325H1, RLG326H1, RLG327H1, RLG330H1, RLG338H1, RLG346H1, RLG379H1, RLG441H1, RLG447H1, RLG448H1, RLG449H1, RLG451H1, RLG452H1, RLG453H1, RLG454H1, RLG455H1

Islam: RLG312H1, RLG313H1, RLG327H1, RLG346H1, RLG350H1, RLG351H1, RLG352H1, RLG354H1, RLG355H1, RLG379H1, RLG458H1, RLG481H1

Hinduism: RLG311H1, RLG358H1, RLG361H1, RLG362H1, RLG363H1, RLG365H1, RLG366H1, RLG368H1, RLG369H1, RLG460H1, RLG462H1, RLG471H1, RLG474H1, RLG476H1

Buddhism: JNR301H1, RLG311H1, RLG371H1, RLG372H1, RLG373H1, RLG374H1, RLG375H1, RLG376H1, RLG379H1, RLG461H1, RLG462H1, RLG463H1, RLG465H1, RLG468H1, RLG469Y1, RLG474H1, RLG479H1

5. 2.0 credits chosen from other Department for the Study of Religion courses carrying any of the

following designators: RLG, JAR, JCR, JRC, JNR, JRN, JPR, JSR

6. 0.5 credit from the following capstone integrative courses: RLG404H1, RLG405H1, RLG406H1, RLG407H1, RLG426H1

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Notes:

- 1.0 credit of related courses offered by other academic units may be counted towards the fulfillment of the program. The list of eligible courses includes:
 - ANT356H1, ANT386H1, ANT426H1, ANTC31H3, ANTC33H3, FAH215H1, FAH216H1, FAH319H1, FAH328H1, FAH381H1, SMC350H1, CLT350H1, SMC250H1, CLT250H1, SMC200H1, CHC200H1, SMC203Y1, CHC203Y1, SMC215H1, CHC215H1, SMC327H1, CHC327H1, SMC305H1, CHC305H1, SMC307Y1, CHC307H1, SMC309H1, CHC309H1, SMC372H1, CHC372H1, SMC371H1, CHC371H1, SMC456H1, CHC456H1, CLA204H1, CLA305H1, CLA308H1, CLA310H1, CLAA05H3, CLAA06H3, CLAC22H3, EAS338H1, EAS361H1, ENGC16H3, ENGC17H3, GASB30H3, HIS208Y1, HIS220Y1, HIS309H1, HIS323H1, HIS338H1, HIS361H1, HIS403H1, HIS464H1, HISD63H3, HISD64H3, ITA311H1, ITA312H1, ITA320H1, ITA321H1, ITA332H1, CJS200H1, CJS290H1, CJS390H1, CJS400H1, CJS490H1, CJS491H1, NMC252H1, NMC270H1, NMC273Y1, NMC284H1, NMC342H1, NMC351H1, NMC360H1, NMC361H1, NMC367H1, NMC370H1, NMC374H1, NMC376H1, NMC380H1, NMC381H1, NMC382Y1, NMC384H1, NMC484Y1, NML220Y1, NML250Y1, NML320H1, NML350H1, NML351H1, NML357H1, NML358H1, NML420Y1, NML452H1, NML459H1, NEW214H1, BPM214H1, NEW232Y1, BPM232H1, NEW302Y1, NEW339H1, BPM339H1, PHL235H1, PHL237H1, PHL305H1, PHL306H1, PHL307H1, PHL308H1, PHL335H1, PHL338H1, PHL414H1, PHL478H1, SLA302H1, SLA314H1, SLA317H1, SLA400H1, SLA449H1, SOC250Y1
- Up to two language courses totaling 1.0 credit in Pali (RLG264H1, RLG265H1), Sanskrit (RLG260H1, RLG263H1, RLG359H1, RLG360H1, RLG474H1), Tibetan (RLG261H1, RLG262H1) or Modern Hebrew (MHB155H1, MHB156H1, MHB255H1, MHB256H1, MHB355H1),

MHB356H1) will count toward the Department for the Study of Religion courses required to complete any Major Program in Religion. If a student wishes a different language (not one of those mentioned here) to count toward completing these programs they should consult with the Associate Chair, Undergraduate.

- Please note that UTM and UTSC courses do not automatically count towards completion of a RLG program (except the Buddhist Studies Major and Specialist). If you have taken or are planning on taking a course at another campus and would like it to count exceptionally towards your program requirements, please e-mail the Undergraduate Program Assistant at religion.undergrad@utoronto.ca.

2. RLG200H1
3. 1.0 Department for the Study of Religion credit at the 300+ level
4. 1.5 additional Department for the Study of Religion credits

Notes:

- JAR, JCR, JNR, JPR, JRC, JRN and JSR courses will be counted as Department for the Study of Religion courses. Courses offered by other academic units may not be counted towards this program.
- Up to one language course totaling 0.5 credit in Pali (RLG264H1, RLG265H1), Sanskrit (RLG260H1, RLG263H1, RLG359H1, RLG360H1, RLG474H1), Tibetan (RLG261H1, RLG262H1) or Modern Hebrew (MHB155H1, MHB156H1, MHB255H1, MHB256H1, MHB355H1, MHB356H1) will count toward the Department for the Study of Religion courses required to complete any Minor Program in Religion. If a student wishes a different language (not one of those mentioned here) to count toward completing these programs they should consult with the Associate Chair, Undergraduate.
- Please note that UTM and UTSC courses do not automatically count towards completion of a RLG program (except the Buddhist Studies Major and Specialist). If you have taken or are planning on taking a course at another campus and would like it to count exceptionally towards your program requirements, please e-mail the Undergraduate Program Assistant at religion.undergrad@utoronto.ca.

Religion Minor (Arts Program) - ASMIN0151

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

1. 1.0 credit from RLG100H1 / RLG101H1 / RLG102H1 / RLG103H1 / RLG104H1 / RLG105H1 / RLG106H1 / RLG107H1 / RLG108H1 / RLG195H1 / RLG196H1 / RLG197H1 / RLG198H1 / RLG199H1 / JRC199H1 / JRN199H1.

Religion Courses

RLG100H1 - World Religions

Hours: 24L/12T

An introduction to the history, philosophy, and practice of the major religions of the world, including Judaism, Christianity, Islam, Hinduism, Buddhism, Confucianism and Taoism.

Exclusion: RLG100Y1 / RLG280Y1 / (RLGA01H3, RLGA02H3). Note: RLG101H5 is not equivalent to RLG100H1.

Breadth Requirements: Society and its Institutions (3)

RLG101H1 - Reason and Religion in the Modern Age

Hours: 24L/12T

An introduction to critical thinking about religion as it took shape in modern European thought. We examine major thinkers such as Baruch Spinoza, David Hume, Immanuel Kant, Friedrich Nietzsche, Hannah Arendt, and others. Issues covered include freedom of thought, the relationship between religion and politics, belief and truth, rational ethics in relation to religious ethics. We explore how issues addressed by these classical authors remain relevant in today's world.

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG102H1 - Blood, Sex and Drugs

Hours: 24L/12T

Religion can be understood as a set of aspirations that manages and moralizes the most intimate matters of social life, including sexual intercourse, bodily fluids, and mind altering substances. This course engages fundamental theories of religion to consider an eclectic set of case studies that troubles a clean divide between purity and danger.

Exclusion: RLG101H1 (Introducing Religion: Blood, Sex and Drugs), offered in Winter 2019 and Winter 2020

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG103H1 - Sports and/as Religion

Hours: 24L/12T

A first-year course looking at the historical and contemporary relationship between religion and sport. We start with the Ancient Greek Olympics (a funeral ritual) and end with the ever-hopeful gathering of Toronto Maple Leafs fans, Leaf Nation. In between, we look at examples of those sports around the world, in which religion plays a significant role or where sports serves as a religion-like pastime.

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG104H1 - Conspiracies, Social Media, and the Rise of New Religious Movements

Hours: 24L/12T

Conspiracy theories are nothing new, but in the past few years we have all witnessed the meteoric rise of conspiracies such as QAnon via social media, which have taken on the elements of New Religious Movements. This course examines recent examples of new religious movements that might be thought of as “conspiratorialities,” that is, conspiracies with strong cult and religious overtones.

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG105H1 - Spirituality, Religion, and the Environment

Hours: 24L/12T

In diverse cultures and throughout history, people have felt a deep connection to their environments. This search for a feeling of connection, or oneness, with nature has led humans into canyons and caves, up mountains and rock faces, and across deserts and oceans. Sometimes nature spirituality occurs within religious traditions, sometimes outside of them, and sometimes even in opposition to ‘religion.’ This course explores the phenomenon of nature spirituality, and the wonder often associated with it. Readings will engage mystics and mountaineers, poets and painters, and farmers and foresters, all exploring the human-nature connection, often in the context of environmental crisis.

Exclusion: RLG239H1 (*Spirituality and Nature*) taken in Winter 2023

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG106H1 - Happiness

Hours: 24L/12T

Are you happy? Today happiness is a metric by which a growing number of people assess the quality of their lives, with a range of experts offering innumerable life hacks and opportunities to optimize life. But what does it mean to be happy? And how have people tried to achieve this ever-elusive state? Situated squarely within the study of religion, this course considers how different traditions from around the world and for thousands of years have raised similar questions about happiness—not simply for the sake of reflection but also to do something about it. And their answers have varied: fast, meditate, pray, go to the desert, come together, get high, suffer, renounce God, and/or make lots of money. Readings will include selections from social theory and religious texts as well as a few authors who seem to be (against all odds) kind of happy.

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG107H1 - "It's the End of the World as We Know It"

Hours: 24L/12T

Throughout history, many religious movements have envisioned the end of the world. This course will explore the ways in which different religious movements have

prepared for and expected an end time, from fears, symbols, and rituals to failed prophecies and social violence. By examining traditions such as Jewish and Christian apocalyptic texts through to fears of nuclear apocalypse and zombies, the course seeks to understand the ways in which ancient and modern claims of "the end" reflect the aspirations, anxieties, and religious concerns of communities.

Exclusion: RLG101H1 ("It's the End of the World as we Know It") offered in Fall 2017 and Fall 2018

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG108H1 - The Question of God

Hours: 24L/12T

What is God? Who is God? Is Yahweh the same as the Christian God? What about Allah? How do people come to see, hear, or feel God? Belief in God is a core tenet of all monotheistic religions, yet the figure of God is elusive and contested. This course offers an introduction to the study of religion and to how the discipline has engaged with the figure of God. Issues covered include histories of God (including proclamations of the "death of God"); psychological and anthropological views on prayer, divine interventions, and God-human relations; God and empire/colonialism; feminist (and other subversive) re-imaginings of God; and atheism. Regardless of their own belief, students will learn to grapple with an inescapable figure, will learn about lived Islam and Christianity (and to a lesser extent Judaism), and will gain insights into a range of thinking tools offered by the study of religion.

Exclusion: RLG239H1 (Special Topics: The Question of God), offered in Fall 2021

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG109H1 - Heroes and Villains: Religion, Role Models & Cautionary Tales from Marvel and DC

Hours: 24L/12T

What differentiates a hero from a villain? How are ethical issues addressed in the stories of such characters? Are Batman and Spiderman understood as role models? This course analyzes exemplary narratives from Pop Culture. We will consider examples from the Marvel Cinematic Universe as well as other forms of popular media. Students will compare these popular narratives with those produced by religious communities.

Breadth Requirements: Thought, Belief and Behaviour (2)

MHB155H1 - Elementary Modern Hebrew I

Hours: 36L/12T

Introduction to the fundamentals of Hebrew grammar and syntax. Emphasis on the development of oral and writing skills.

Exclusion: Grade 4 Hebrew (or Grade 2 in Israel)/NML155H1

Breadth Requirements: Creative and Cultural Representations (1)

MHB156H1 - Elementary Modern Hebrew II

Hours: 36L/12T

Continued introduction to the fundamentals of Hebrew grammar and syntax. Emphasis on the development of oral and writing skills.

Prerequisite: MHB155H1/ NML155H1 permission of the instructor based on previous language knowledge

Exclusion: Grade 4 Hebrew (or Grade 2 in Israel)/NML156H1

Breadth Requirements: Creative and Cultural Representations (1)

RLG195H1 - Alt-Bible: What Could Have Been

Hours: 24S

Why does our contemporary Bible not include any daughters for Adam and Eve or any stories of Jesus as a young boy? What if Enoch was more prominent than Moses or Thomas more prominent than Paul? "The Bible" that we have is not a single book or a simple collection, but something that has grown over time, been the object of contention and argument, and has sometimes been a common ground across traditions. We examine side-by-side writings that have become canonical and writings that once held authority but have not found widespread canonical status, and strive to understand the processes by which we ended up with "the Bible" we have today. Restricted to first-year students. Not eligible for CR/CNR option.

Breadth Requirements: Creative and Cultural Representations (1)

RLG196H1 - Goddess Lessons: Gender, Religion and Pop

Hours: 24S

Is God a woman? How can we get to heaven without losing a piece of ourselves? What does it mean to follow Lesbian Jesus? Pop music provides us with some important – if often surprising – opportunities to think through deep questions. Increasingly, these questions tie together two of our most powerful human categories: gender and religion. This course will consider the diverse interactions between pop, gender, and religion. Examples might include Beyonce's self-representation as the Yoruba goddess Oshun and Lil Nas X's reinterpretation of the Garden of Eden in *Montero*. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

RLG197H1 - Enchantment, Disenchantment, Re-Enchantment

Hours: 24S

Modernity is associated with disenchantment, secularisation and progress, and has traditionally been understood as the successor to the enchanted, spiritual, and transcendent worldviews of antiquity and the middle ages. Re-enchantment, a term increasingly encountered in popular and academic contexts alike, demonstrates nostalgia for an enchanted past, a discomfort with the modern narrative, and a desire to recover wonder. This course will examine the history of enchantment through a series of readings taken from literature, philosophy, theology, ranging from Plato to contemporary magical realism. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

RLG198H1 - Dystopia: Religion & Gender in Science Fiction

Hours: 24S

This course will examine the “what ifs” and imagined worlds of ideal utopias and oppressive dystopias through the lens of religion and gender in Margaret Atwood's *The Handmaid's Tale* and Charlotte Perkins Gilman's *Herland*. Because science fiction and utopian/dystopian literature expresses what an author sees as possible or hopes is possible, but also fears is possible, we will consider science fiction as a political and social critique. Themes to

be covered include fundamentalism, totalitarianism, the relationship between technology and religion, religion and reproductive rights, and the potential relationship between religion, gender and oppression. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

JRC199H1 - Truths & Reconciliations in Canada

Hours: 24S

In this course, we examine the idea of reconciliation among Indigenous and Canadian nations by considering the complicated role of religion and spirituality in “truth and reconciliation.” Specifically, residential schools for Indigenous children were a collaboration of church and state that violently broke the spirit and intent of the treaties—or sacred promises—made between the Crown and Indigenous nations. The course will set the 2015 Truth & Reconciliation Commission of Canada in a longer history of twentieth-century commissions, reports, and petitions in which both Indigenous and Canadian people (and some churches) named the cultural and spiritual genocide of residential schools and called for action. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

JRN199H1 - Exodus and Enslavement

Hours: 24S

Popular conceptions of enslavement in North America have influenced how we frequently imagine enslavement in Exodus and related biblical and related texts from the ancient Near East. Yet, depictions of enslavement in these ancient texts may be strikingly different from our ideas of enslavement in North America. This course explores similarities and differences between enslavement in these different historical contexts. It also examines how biblical texts were utilized in debates over and revolts against enslavement primarily in the eighteenth and nineteenth century. All readings will be in English. No knowledge of Hebrew is required. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

RLG199H1 - Contagions

Hours: 24S

It is obvious that infections spread through social networks; what is less well known is that forms of human behaviour, including religious affiliation, have network characteristics. This course examines a variety of historical and contemporary contagions to introduce essential concepts in network analysis and the factors that account for the spread of innovation and other forms of human behaviour. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

RLG200H1 - The Study of Religion

Previous Course Number: RLG200Y1

Hours: 24L/12T

An introduction to the discipline of the study of religion. This course surveys methods in the study of religion and the history of the discipline in order to prepare students to be majors or specialists in the study of religion.

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG201H1 - Indigenous Spiritualities and Religions

Hours: 24L/12T

This course examines how Indigenous communities saw the world before contact—primarily exploring early creation narratives and ways of engaging with the natural world through ceremonials of reciprocity and acknowledgements. It engages with how early colonial societies and Western-based religions evaluated and understood Indigenous spiritualities and practices. We consider Indigenous critiques of Western religion as it has actually been practiced as opposed to what has been taught as constituting the ideals of civilization. Finally, we analyze how Indigenous communities and culture begin to create “New Religions” that blend Indigenous values and thinking with aspects of Western culture or emerge in direct response to re-imagining spirituality in attempts to prove humanness and civility in contexts where little of Indigenous culture and values has been seen as acceptable.

Breadth Requirements: Creative and Cultural Representations (1)

RLG202H1 - Judaism

Hours: 24L/12T

An introduction to the religious tradition of the Jews that explores key themes as they change from ancient times to today. The set of themes will include: the Sabbath, Study, Place, Household, Power. Each year will focus on one theme. We will read holy texts, modern literature, history, ethnography, and philosophy, covering each theme in a range of genres and across the diverse span of Jewish experience.

Exclusion: [RLG202H5](#), [RLG202Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG203H1 - Christianity

Hours: 24L/12T

We explore the multiple religious traditions of Christianity and follow key themes as they have changed throughout the last two millennia. The themes might include: the Bible and its translation; missionizing and colonial practices; belief and conversion; authority and power; capitalism and Christianity. The course will equip students to understand how and why Christianity has come to exert such influence around the globe. No familiarity with the Bible, Christianity, or the academic study of religion is assumed.

Exclusion: [RLG203H5](#), [RLG203Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG204H1 - Islam

Hours: 24L/12T

An introduction to the Islamic religious tradition that explores its diversity and development, from its inception to the modern period. Themes include Pre-Islamic Arabia, the life of Muhammad and the Qur'an, the development of the notion of Sunna and Hadith, Islamic religious communities (Sunni, Shiite and Ismaili traditions), Sufism, and religious practices. The course will emphasize the complexity of the Islamic tradition both in its classical phase and in modernity including Islam in the diaspora.

Exclusion: [RLG204H5](#), [RLG204Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG205H1 - Hinduism

Hours: 24L/12T

This course explores themes relating to the religion of Hindus, called Hinduism since modernity. Topics include the canonical literatures, philosophies, and doctrines of Hinduism, along with the debates surrounding them; lived Hinduism, and the texts that inform its practice and experience; activities considered quintessential to Hinduism, such as temple visits, yoga, and venerating a guru; and the vibrant spectrum of Hindu expression one encounters in the diaspora. The course will equip students with fluency in core concepts and practices of Hinduism, as well as an understanding of Hindu history as one of dynamism and transformation.

Exclusion: RLG205H5, RLG205Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG206H1 - Buddhism

Hours: 24L/12T

This course traces the socio-historical development of Buddhist traditions across the diverse regions of South, Southeast, Central, and East Asia from their foundations in early India to their transmission in the contemporary West. Although much of our time will be spent reading, grappling with, and discussing Buddhist literary works (premodern, modern), we will also consider the institutional and practical dimensions of Buddhism as a lived tradition. To that end, weekly readings and lectures will be supplemented with maps, images, and videos to highlight the vast geographical range and significance of Buddhist traditions over time, as well as their rich visual and material cultures. By the end of the course students are expected to have a solid understanding of the basic timeline of Buddhist history in Asia, together with the major figures, key concepts, central texts, and ritual practices comprising Buddhist traditions.

Exclusion: RLG206H5, RLG206Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG208H1 - Sikhism

Hours: 24L

A historical and thematic introduction to the Sikh religious tradition as embedded in the socio-cultural structures of India.

Exclusion: RLG207H5

Breadth Requirements: Creative and Cultural Representations (1)

RLG209H1 - Justifying Religious Belief

Hours: 24L/12T

Beliefs typically characterized as “religious” concern such things as the existence and nature of the deity, the afterlife, the soul, miracles, and the universe’s meaningfulness, ultimate purpose, or interest in the distribution and realization of justice. Common to these and other religious beliefs is that they lack empirical evidence to support them – at least so say religious skeptics. They insist that rational beliefs require justification and that justification comes from perceptions anyone could have or solid scientific reasoning. Anyone who harbors religious beliefs thus violates a basic epistemic responsibility. How might people who hold – and want to continue to hold – religious beliefs respond to these accusations and doubts?

The course examines these basic epistemological and moral challenges to religious belief as well as the various strategies available to religious believers who are confronted with such demands for justifications. By doing so, we will aim to understand better whether religious beliefs of various sorts could count as rational, whether reasonable people might disagree with each other about the very nature of reality and morality, and whether anyone who falls short of common intellectual and social ideals of rationality and reasonableness ought to be tolerated.

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG211H1 - Psychology of Religion

Hours: 24L/12T

This course focuses upon the psychology of religion from the perspectives of psychoanalysis, affective neuroscience, attachment theory and evolutionary psychology. We explore the nature of religious beliefs, experiences and practices as interactive creations of mind and culture. We will inquire into the relationship between belief and knowledge, subjective and objective experience/reality, phantasy, dreams and reality. How does the unconscious create and shape religious beliefs, experiences and practices? How have the insights of the founders of the field been updated by contemporary neuroscientific and evolutionary theories? We consider visionary, esoteric and paranormal experiences and consider the distinctions between mental health and pathology.

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG212H1 - Anthropology, Religion and Culture

Previous Course Number: RLG212Y1
Hours: 24L/12T

Is religion a matter of belief or a matter of practice? Do all religions share common features? Is one born into religion, or does one learn to be religious? This course is designed to introduce students to some of the ways in which anthropologists have studied and thought about religion. The emphasis is not on memorizing things people believe and do in different societies but on understanding how anthropologists have tried to explain religious phenomena. The themes covered in the course include: magic and religion; the (ir)rationality of belief; the body as a site of knowledge; ritual; ethical self-cultivation; and religion's role in the secular age.

Exclusion: RLG212Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG213H1 - Embarrassment of Scriptures

Hours: 24L/12T

Surveys interpretative traditions related to sacred texts, focusing on reading strategies that range from the literal to the figurative with attention to rationales that transform literal textual meanings and copyists manipulations of texts. May focus on various religious traditions from year to year, targeting a single canonical tradition or comparative analysis. Students will gain insight into literalist, environmentalist, secularist and erotic approaches to texts. Prior exposure to the study of religion is not required; all readings will be in English.

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG214H1 - Mythologies and Religion

Hours: 24L

Myths and legends are narrative means for humans to make sense of their environment, the organization of their societies, and their social practices. This course introduces the principal myths and mythological figures of a selection of mythic systems (Near Eastern, Celtic, Nordic, Slavic and Indigenous North American) as way of

modelling the world. Such topics as creation, chaos and order, love and death, coming of age, the monstrous, and explanations of evil and misfortune, and the survival and the transformation of mythic and folkloric elements.

Breadth Requirements: Society and its Institutions (3)

RLG215H1 - New Religious Movements

Hours: 24L/12T

The saying goes that "Cult + Time = Religion." In this course, we will examine this assertion, looking especially at the development of recent religions, such as Scientology. This course will probe the history of scholarship on new religious movements (once known as "cult studies") and explore the challenges inherent in studying controversial movements.

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG217H1 - Black Diaspora Religions

Hours: 24L/12T

This course critically examines the intersection of religion and cultural expressions in the African Diaspora, with a particular emphasis on the Canadian landscape. The importance of religion in the Black Diaspora's experience of both oppression and liberation will be a key component of our analytic framework in explaining and understanding the Black/African experience and culture in the diaspora.

Breadth Requirements: Society and its Institutions (3)

RLG218H1 - Traditional Ecological Knowledge and Religion

Hours: 24L/12T

In modern history, sacred and sacramental understandings of nature have often been marginalised and criticized as primitive and superstitious. Today, these beliefs and practices increasingly present themselves as sources of overlooked ecological knowledge, and resources in our search for a sustainable human-nature relationship. This course focuses upon efforts to recover, reclaim and relegitimise alternative understandings of nature and traditional ecologies in the context of the contemporary environmental crisis. Students will deploy course readings as resources for considering a particular contemporary environmental challenge through field work culminating in a creative environmental project.

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG222H1 - Witchcraft, Religion and the Powers of the Occult

Previous Course Number: RLG337H1
Hours: 24L/12T

Picture a witch in your mind's eye. Do you see them as male, female, or somewhere between the two? Young or old? Good or evil? This course goes beyond common Western assumptions about the character and morality of witchcraft to show how its study, its representation and its practice contribute in vital ways to our understandings of religion, the occult, morality, gender, sexuality and science. We move across Europe, Africa, Melanesia and North America to shed light on a controversial figure in numerous societies and literary traditions, past and present. Depictions of witches, wiccans, sorcerers and magicians are analyzed and compared. At the same time, the course should make you ask yourself: What is rational, what is ethical—and ultimately, what is human?

Exclusion: [RLG337H1](#)
Breadth Requirements: Society and its Institutions (3)

RLG230H1 - Religion, Law and Society

Hours: 24L/12T

The course examines various issues, including: Canadian society and secularization; religious pluralism and legal pluralism; the role of religions in public contexts; land and property; marriage and women's rights; and the place of minority religious communities.

Breadth Requirements: Society and its Institutions (3)

RLG231H1 - Music and Religion: From Bach to Leonard Cohen

Hours: 24L/12T

What is music to religion? This course is an exploration of religion and music from a global perspective. 'World' music will be placed in comparative frameworks with various 'world' religions in order to understand how music has been and continue to be at the core of religious narratives, rituals, beliefs, and cultural performances.

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG232H1 - Religion and Film

Previous Course Number: RLG390H1
Hours: 24L

The role of film as a mediator of thought and experience concerning religious worldviews. The ways in which movies relate to humanity's quest to understand itself and its place in the universe are considered in this regard, along with the challenge which modernity presents to this task. Of central concern is the capacity of film to address religious issues through visual symbolic forms.

Prerequisite: 4.0 credits
Exclusion: [RLG390H1](#)
Breadth Requirements: Creative and Cultural Representations (1)

RLG233H1 - Religion and Popular Culture

Hours: 36L

A course on the interactions, both positive and negative, between religion and popular culture. We look at different media (television, advertising, print) as they represent and engage with different religious traditions, identities, and controversies.

Breadth Requirements: Creative and Cultural Representations (1)

RLG234H1 - Language and Religion

Hours: 24L/12T

What is language to religion? And how is it used by humans and divine agents? This course moves across traditions, examining types of communications from speech to rhetoric to book to revelation; and types of communicators from hermit to evangelist to deity. We will see language used to clarify and to obscure; to exclude and to liberate. And we will think about miscommunication too: the message lost in transmission. All readings will be in English. No knowledge of other languages is required.

Breadth Requirements: Creative and Cultural Representations (1)

RLG235H1 - Religion, Gender, and Sexuality

Hours: 24L/12T

This course equips students to understand how norms and practices of gender and sexuality are deeply entangled with religious imaginations and traditions. We will examine how ritual, scriptural, and legal traditions enable and constrain embodied and political power. Readings will draw from feminist, womanist, queer, and other perspectives. With a combination of in-class discussions, critical reading exercises, and short essay assignments, students will strengthen their awareness of transnational intersections of religion, gender, and "religio-racial" formations. You will develop skills in analyzing the role of popular culture and legal and religious texts in shaping norms and experiences of gender and embodiment.

Prerequisite: Completion of 4.0 credits

Exclusion: [RLG314H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG236H1 - Material Religion

Previous Course Number: RLG305H1

Hours: 24L

Religions are more than beliefs or sacred texts. They are also formed through buildings, bodies, objects of devotion, images, websites. We examine how religion is embodied, circulated, built, played, displayed, and painted. We ask why religions are often constituted through feasting or fasting, excess or asceticism, abundance of objects or destruction of icons. Religious activity is explored through its connections with objects of wealth and consumption--not just great art, but items common within popular culture. The overall aim is to 'see' religion in a new way—and to understand the role of the senses in the formation of religious experience.

Breadth Requirements: Creative and Cultural Representations (1)

RLG237H1 - Religion, Medicine, and the Human Body

Hours: 24L/12T

Throughout much of human history, considerations of the wondrous workings and frightening frailty of the human body occupied a large role in religious thought and practice. This course examines how religion influenced the development of scientific thought about physiology and medicine, as well as how scientific knowledge was integrated into religious beliefs. Possible topics of discussion include attitudes towards the differences among the sexes, public health needs and the coercion of individuals, the significance of stages of life and aging, contraception and abortion, the relation between mental

and physical health, and how to face the prospect of death and disease appropriately. We will also explore the role of pilgrimage sites in healthcare. Finally, we discuss the particular internal conflicts and religious experiences of medical care professionals.

Regions and time periods under discussion will vary by instructor.

Recommended Preparation: [RLG202H1](#)/ [RLG203H1](#)/ [RLG204H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG239H1 - Special Topics

Hours: 24L

This course offers an opportunity to explore a topic in the study of religion. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

RLG241H1 - The Earliest Christians

Hours: 24L/12T

What can the earliest writings of Early Christianity tell us about the movement and its founding figure? We examine these writings critically and historically in order to understand the immense variety of early Christianity as it grew within Judaism and within the Greco-Roman World. No familiarity with Christianity or the New Testament is expected

Exclusion: [RLG241H5](#), [HUMC14H3](#), [RLG241Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG242H1 - Bible in America

Hours: 24L/12T

This course offers a critical examination of the role of biblical texts (Hebrew Bible/Old Testament and New Testament) within the history, literature, and culture of the United States of America. It will employ a range of methodological perspectives to explore the use, influence, and impact of biblical interpretation especially regarding claims of American identity. All readings will be in English. No knowledge of Hebrew or Greek is required.

Breadth Requirements: Creative and Cultural Representations (1)

RLG243H1 - Naked and Not Ashamed: The Book of Genesis

Hours: 24L

This course provides a critical introduction to the book of Genesis. It examines the historical and literary contexts of Genesis and engages diverse methods of contemporary biblical scholarship, such as narrative analysis, gender analysis, and history of interpretation. This course highlights the use of Genesis in various Jewish and Christian communities and in popular culture, including music, film, and visual arts. All readings will be in English. No knowledge of Hebrew or Greek is required.

Breadth Requirements: Thought, Belief and Behaviour (2)

MHB255H1 - Intermediate Modern Hebrew I

Hours: 36L/12T

Intensive study of written and spoken Hebrew.

Prerequisite: MHB156H1/ NML156H1 or permission of the instructor based on previous language knowledge

Exclusion: Grade 8 Hebrew (or Ulpan level 2 in Israel)/ NML255Y1

Breadth Requirements: Creative and Cultural Representations (1)

MHB256H1 - Intermediate Modern Hebrew II

Hours: 36L/12T

Continued intensive study of written and spoken Hebrew.

Prerequisite: MHB255H1/ NML156H1 or permission of the instructor based on previous language knowledge

Exclusion: Grade 8 Hebrew (or Ulpan level 2 in Israel)/ NML255Y1

Breadth Requirements: Creative and Cultural Representations (1)

RLG260H1 - Introduction to Sanskrit I

Previous Course Number: RLG260Y1

Hours: 48L

The first semester of an introduction to Classical Sanskrit for beginners. Students build grammar and vocabulary, and begin to read texts in Sanskrit. Complete beginners are welcome. Two sections of the course will be offered: an on-campus class meeting and an online section via live webinar participation. The final exam will require attendance on the St. George campus, or in another authorized exam centre.

Exclusion: RLG260Y1

Breadth Requirements: Creative and Cultural Representations (1)

RLG261H1 - Introduction to Tibetan I

Previous Course Number: RLG261Y1

Hours: 48L

An introduction to Classical Tibetan language for beginners. Development of basic grammar and vocabulary, with readings of simple texts. Two sections of the course may be offered: an on-campus class meeting and an online section. The final exam will require attendance on the St. George campus, or in another authorized exam centre.

Exclusion: RLG261Y1

Breadth Requirements: Creative and Cultural Representations (1)

RLG262H1 - Introduction to Tibetan II

Previous Course Number: RLG261Y1

Hours: 48L

The second semester of an introduction to Classical Tibetan language course for beginners. Continued work on grammar and vocabulary, advancing to reading texts. Two sections of the course may be offered: an on-campus class meeting and an online section. The final exam will require attendance on the St. George campus, or in another authorized exam centre.

Prerequisite: RLG261H1

Exclusion: RLG261Y1

Breadth Requirements: Creative and Cultural Representations (1)

RLG263H1 - Introduction to Sanskrit II

Previous Course Number: RLG260Y1

Hours: 48L

The second semester of an introduction to Classical Sanskrit for beginners. Students continue to build

grammar and vocabulary, and use that knowledge to read texts in Sanskrit. The course will be offered online via live webinar participation.

Prerequisite: [RLG260H1](#)

Exclusion: [RLG260Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

RLG264H1 - Introductory Pali I

Hours: 36L/12T

This course offers an opportunity to students interested in Buddhism to read, analyze, and discuss select simple passages from the scriptures of the Theravada canon in their original language. It will cover philosophical, psychological, and narrative texts and their interpretation, as well as provide a first exposure to the Pali Language.

Breadth Requirements: Creative and Cultural Representations (1)

RLG265H1 - Introductory Pali II

Hours: 36L/12T

This course offers an opportunity to students interested in Buddhism and with basic knowledge of Pali to read, analyze, and discuss select simple passages from the scriptures of the Theravada canon in their original language. It will cover philosophical, psychological, and narrative texts and their interpretation.

Prerequisite: [RLG264H1](#) or equivalent capacity to read original Pali texts

Breadth Requirements: Creative and Cultural Representations (1)

RLG290Y1 - Special Topics

Hours: 24L

This course offers an opportunity to explore a topic in the study of religion. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

JRN301H1 - Disability in the Hebrew Bible and Related Texts

Hours: 24L

The Hebrew Bible (sometimes called the Old Testament) has influenced ideas about disability in societies across the globe for thousands of years. Yet, notions of disability in the Hebrew Bible may be strikingly different from what we might imagine. This course explores how some biblical texts and related ancient literature conceptualize disability in relation to issues of ethnicity, sexuality, beauty, age, social class, religious expression and so on. We will examine a number of these issues both in their ancient context and in some more recent interpretations of the Hebrew Bible. All readings will be in English. No knowledge of Hebrew is required.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

JAR301H1 - Plagues and Peoples: From Divine Intervention to Public Health

Hours: 24L/12T

Infectious diseases have afflicted human societies throughout the history of our species. How are diseases shaped by the societies in which they spread, and how do they change culture and politics in turn? This course introduces perspectives from medical anthropology and religious studies to analyze the intersection of cultural, religious and scientific narratives when people confront plagues. We focus on historical and contemporary examples, such as the Spanish flu and COVID-19, giving students the tools to understand how cultural institutions, religious worldviews, and public health epidemiology shape living and dying during a pandemic.

Prerequisite: At least 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

JNR301H1 - The History of Buddhist Meditation

Hours: 36L

This course will survey historical, cultural, and textual contexts for Buddhist meditative and contemplative practices and techniques.

Prerequisite: [RLG206H1](#)/ [NEW232Y1](#)/ [BPM232H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG301H1 - Religion on the Couch: Freud and Jung on Religion

Hours: 24L

A comparative, critical analysis of the key writings on religion by Sigmund Freud and Carl Jung. Particular attention will focus on the unconscious and its role in the transgenerational transmission of trauma, especially through myths and religions. Freud's theory of dreams are compared with Jung's ideas of universal symbols and archetypes, including the personal and collective unconscious. Jung's theory of synchronicity will be discussed alongside Freud's theory of telepathy or thought-transference, including their implications for different understandings of the unconscious and archaic inheritance expressed and manifested in religions and religious experience.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

JCR303H1 - Global Christianities

Previous Course Number: CHC303H1/SMC303H1

Hours: 24L/12T

An advanced introduction to the diverse traditions and movements of contemporary Christianity, with special emphasis on the global South. Sample topics include new ecclesial communities, the rise of Pentecostalism and independent churches, liberation and indigenized theologies, and new forms of martyrdom in the 21st century.

Prerequisite: 4.0 credits

Exclusion: CHC303H1, SMC204H1, SMC207H1, SMC209H1, SMC303H1

Recommended Preparation: CHC203Y1, CHC215H1, RLG203H1

Breadth Requirements: Society and its Institutions (3)

RLG303H1 - Evil and Suffering

Hours: 24L

The existence of evil poses a problem to theistic beliefs and raises the question as to whether a belief in a deity is incompatible with the existence of evil and human (or other) suffering. This course examines the variety of ways in which religions have dealt with the existence of evil.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG304H1 - Language, Symbols, Self

Hours: 24L

Theories of the self that involve the constitutive role of language in its various forms. Problems of socially-conditioned worldviews and sense of self as related to discourse. Myth, symbol, metaphor, and literary arts as vehicles for personality development and self-transformation along religious lines.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG307H1 - Museums and Material Religion

Hours: 24L

Museums have long collected and curated religious objects for public audiences, with missionaries as a primary collections source. Multiple visits to the Royal Ontario Museum and other museums will enable students to think critically about how museums received and presented these objects, while engaging with the challenges of museum curation.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG308H1 - Migration, Religion and City Spaces

Hours: 24L

Immigrants have transformed cities through religious practices. Explore how transnational migration has affected religious diversity and vitality in metropolitan areas. Through discussion, site visits and analysis, students will examine the ways that immigrants use religion to make home, challenges around the establishment of new religious structures, and policy designed to accommodate new religious practices and communities.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

RLG309H1 - Religion and Human Rights

Hours: 24L

We will explore the dynamic inter-relations of women, ethnicities and minorities, among others, within the context of religion in this age of human rights, focusing on the contemporary global context. Our aim will be to include both theory and praxis. The approach will be intersectional, cross-cultural, inter-religious and inter-disciplinary. We will do this by drawing on both academic and non-academic resources, grassroots movements as well as global initiatives to approach these issues.

Prerequisite: Completion of 4.0 credits

Exclusion: RLG309Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG310H1 - Modern Atheism and the Critique of Religion: Hobbes to Kant

Hours: 24L

This course examines select modern thinkers and their critical approaches to the nature and significance of religious beliefs and practices. Hobbes, Spinoza, Hume, and Kant are among the major thinkers studied.

Prerequisite: Completion of 4.0 credits

Exclusion: RLG310Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG311H1 - Gender, Body and Sexuality in Asian Traditions

Previous Course Number: RLG236H1

Hours: 24L/12T

A study of women in the religious traditions of South and East Asia, including historical developments, topical issues, and contemporary women's movements.

Prerequisite: Completion of 4.0 credits

Exclusion: RLG236H1

Recommended Preparation: RLG235H1

Breadth Requirements: Society and its Institutions (3)

JSR312H1 - Queer Religion and Religiosities

Hours: 24L

This course will introduce students to key terms, theories, and debates in Queer and Religious Studies and to the history of queer identities as they are expressed within various religious traditions, texts, and communities. It asks how dominant heteronormative discourses on gender and sexuality are adhered to, legitimized, negotiated, and contested within various religious traditions. The course will also allow students to interrogate how power and power relationships are shaped by sex, gender, sexuality, race, ethnicity, class, age, and ability in the world of religion.

Prerequisite: Completion of 4.0 credits including a 0.5 credit in SDS/ RLG

Breadth Requirements: Creative and Cultural Representations (1)

RLG312H1 - Gender, Body and Sexuality in Islam

Hours: 24L

This course explores attitudes towards sexuality, gender, and women's bodies in Islamic thought and history. We will read foundational religious texts, classic works of law and ethics, poetry, and historical documents, as well as contemporary reflections by Muslim feminist thinkers. Topics to be discussed include sexual ethics within and outside of marriage, consent to marriage and divorce, contraception and abortion, menstruation, modest dress, gender-based segregation, same-sex sexual attraction, and gender non-conformity.

Prerequisite: Completion of 4.0 credits

Exclusion: RLG251H1

Recommended Preparation: RLG204H1/ RLG204H5

Breadth Requirements: Society and its Institutions (3)

RLG313H1 - Love, Sex, Family

Previous Course Number: RLG237H1

Hours: 24L

This course equips students to understand the religious roots of modern formations of gender, sexuality, and kinship, focusing in particular on Judaism, Christianity, and New Religious Movements. Topics we will cover include: the transformation of traditional religious structures into the modern "religion of romantic love," the reshaping of religious practices within the modern nuclear family and its gendered division of labour, the persistent religious entanglements within not only normative but also queer and transgressive gender performances and kinship structures, the political asymmetries within which different religious modernities emerge, and the role of literature in preserving religious enchantment in modernity.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

RLG314H1 - Pilgrimage as Idea and Practice

Previous Course Number: RLG215H1

Hours: 24L

The study of pilgrimage has become increasingly prominent in anthropology and religious studies in recent decades. Why should this be? This course provides some answers while engaging in a cross cultural survey and analysis of pilgrimage practices. We also explore whether research into pilgrimage has wider theoretical significance.

Prerequisite: Completion of 4.0 credits

Exclusion: RLG215H1

Breadth Requirements: Society and its Institutions (3)

RLG315H1 - Rites of Passage

Hours: 24L

We examine rituals of transition from one social status to another (such as childbirth, coming of age, marriage) from theoretical, historical and ethnographic perspectives. We pay particular attention to the importance of rites of passage in the construction of gendered identities.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

RLG317H1 - Religion, Violence, and Non-Violence

Hours: 24L

People acting in the name of religion(s) have incited violence and worked for peace. How can we understand this tension both today and in the past? Through examination of the power of authoritative tradition, collective solidarity, charisma, and acts of resistance, this course addresses religious justifications of violence and non-violence across varied historical and geographical contexts.

Prerequisite: Completion of 4.0 credits

Exclusion: RLG317H5

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG318H1 - Sacred & Secular Nature in Christianity

Hours: 24L

How did we get to where we are now? How did humans come to be so alienated from nature? This course will examine how religion, particularly that of the Latin West, has shaped the understanding of, and interaction with, nature on a global level. It examines the complex shift from understanding nature as sacred and revelatory, to its conceptualisation as a commodity and resource. Students will explore the ethical and cultural consequences of this shift for the human-nature relationship, and contemporary attempts to recover sacred notions of nature in the context of the environmental crisis.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG319H1 - Death, Dying and Afterlife

Previous Course Number: RLG229H1

Hours: 24L

This course introduces students to various religious approaches to death, the dead, and afterlife. Through considering different ways in which death has been thought about and dealt with, we will also explore different understandings of life and answers to what it means to be human.

Prerequisite: Completion of 4.0 credits

Exclusion: RLG229H1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG320H1 - Judaism and Christianity in the Second Century

Hours: 24L

Judaism and Christianity in the period from 70 C.E. to 200 C.E. The course focuses on the relationship between the two religious groups, stressing the importance of the setting within the Roman Empire.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: RLG241H1/ RLG241Y1

Breadth Requirements: Society and its Institutions (3)

RLG321H1 - Women and the Hebrew Bible

Hours: 24L

This course provides a critical examination of the Hebrew Bible (sometimes called the Old Testament) with an emphasis on women characters. It examines the historical and literary contexts of Hebrew Bible texts and engages diverse methods of contemporary biblical scholarship with particular attention to issues of gender. All readings will be in English. No knowledge of Hebrew is required.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: NMC252H1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG322H1 - Early Gospels

Hours: 24L

Careful examination of the earliest “lives of Jesus” (‘gospels’) shows that they offer very different portraits of Jesus of Nazareth. The course will compare ancient biographical accounts of famous ancient figures such as Alexander the Great, the Caesars, and wandering philosophers with early depictions of Jesus, both the gospels that eventually were included in the New Testament, and extra-canonical or “apocryphal” gospels such as the Gospels of Thomas, Peter, or Mary.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: RLG241H1/ RLG241Y1

Breadth Requirements: Creative and Cultural Representations (1)

RLG323H1 - Jesus of Nazareth

Hours: 24L

To what extent does Jesus who lived and taught in first-century Galilee and Judea align with the picture of Jesus in early Christian writings? We examine the methods for discerning the historical Jesus and the portraits that result from rigorous application of those methods

Prerequisite: Completion of 4.0 credits

Exclusion: RLG323H5

Recommended Preparation: RLG241H1/ RLG241Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG324H1 - The Apostle Paul and His Enemies

Hours: 24L

An examination of Paul's life and thought as seen in the early Christian literature written by him (the seven undisputed letters), about him (the Acts of the Apostles, the Acts of Paul) and in his name (falsely authored compositions in early Christianity).

Prerequisite: Completion of 4.0 credits

Exclusion: RLG324H5

Recommended Preparation: RLG241H1/ RLG241Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG325H1 - The Uses and Abuses of the Bible

Hours: 24L

From politics to popular culture, the Bible has shaped people and nations for good and for ill. This course introduces the Jewish and Christian Bibles and considers case studies of how biblical texts have been interpreted. The Bible has been used to bolster slavery and white supremacy and to inspire political liberation movements. It has been used to justify annihilation of Indigenous people by Christian colonists yet given hope to Jews that next year in Jerusalem might be better. How can the same “book” be used for such different purposes? This course focuses on the cultural and political consequences of biblical interpretation. An underlying premise is that the Bible is not static but is rather a nomadic text as it is continuously interpreted in ways that sometimes contribute to human flourishing, but also can result in violence, human diminishment, or death.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG326H1 - Roots of Christianity and Judaism

Hours: 24L

Judaism and Christianity are both considered “religions of the book” but how are they related to each other? This course considers the origins of that relationship by reading a range of Jewish texts from the 6th century BCE to the 1st century CE, including the Dead Sea Scrolls, in order to illuminate the diverse cultural matrix from which early Christianity and Judaism took shape. A major theme of the course is the formation of scriptures and scriptural

interpretation as a factor in shaping distinctive Jewish cultures. Attention is also given to “lived religion” and practices that form individuals and communities.

Prerequisite: Completion of 4.0 credits

Exclusion: [RLG326H5](#)

Breadth Requirements: Society and its Institutions (3)

RLG327H1 - Hospitality and Ethics in Judaism, Christianity, and Islam

Hours: 24S

Refugee crises in modern times have raised questions concerning what degree of hospitality is owed the stranger or foreigner whose motivation is a new, safe, and secure home rather than being treated as a guest passing through on a time-limited visa. Jacques Derrida's ideas of both conditional hospitality (e.g., tourists) and unconditional hospitality (e.g., strangers) need to be explored from the perspective of philosophical and ethical traditions including Jewish, Christian, and Muslim ethics.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: 0.5 credit in [RLG202H1/RLG203H1/RLG204H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG328H1 - Religion, Race, and the Legacy of Cain and Abel

Hours: 24L

Cain's killing of his brother Abel is one of the best known but least understood stories in the Bible. For thousands of years, interpreters have puzzled over the gaps and ambiguities of the story in order to piece together the how, what, where and why of this violent incident. This course explores the legacies of Cain and Abel across various religious traditions and in art, literature, and popular culture. It considers the surprising roles that this biblical story has played in modern ideas about religion, politics, and race. All readings will be in English. No knowledge of Hebrew is required.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG329H1 - New Atheism and the Study of Religion

Hours: 24L

A course to look at the rise of a “new atheism” in the late 20th- and early 21st-century. This popular movement has gained traction in late modernity, renewing older arguments about the negative consequences of religion in public life. We shall examine this movement, tracking its rise, fall, and future, as we ponder the implications of New Atheism for the academic study of religion.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: [RLG200H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG330H1 - Visions and Revelation in Ancient Judaism and Christianity

Hours: 24L

What did ancient Jews and Christians see and know when they “saw” God or heavenly realms? Or when they toured hell or the infernal regions? This course examines the ancient imagination by treating the major elements of the apocalyptic literary corpus and accompanying visionary experiences in ancient Judaism and Christianity. Contemporary theories on the function and origin of apocalyptic literature inform our readings.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG331H1 - Creation Narratives and Epistemologies

Hours: 24S

The course will examine the importance of Indigenous cultural knowledge and values as presented in various Indigenous Creation Narratives. Creation Narratives or Cosmological narratives have long been studied as mere mythology. Yet, it is in these very narratives that complex, layered, and nuanced epistemologies emerge. Often, these narratives not only lay the epistemological frameworks of cultural value systems, but they also contain what many refer to as original instructions and purpose for the “Original People”.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG332H1 - Reasonable and Radical Hope

Hours: 24L

Human beings have a natural and necessary interest in the prospects of their happiness, their moral improvement, and a progressively more just world. When, to what extent, and on what basis our hope for these things could be reasonable have been central questions in philosophy of religion since the Enlightenment. But genocides and cultural devastation (e.g., the Holocaust or the fates of some Indigenous communities) have compelled more recent philosophers to ask not only about rational hope, but also radical hope. This course explores reasonable and radical hope, first by unpacking the well-established philosophical question of our what we may reasonably expect from ourselves and our world, and then turning to the issue of humans' capacity to persist when their community and its culture face extinction, i.e., when they may no longer expect anything.

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG333H1 - Religion, Irreligion, and the Meaning of Life

Hours: 24L

Humans ask no more important question than: "what is the meaning of life?" Given its significance, the question should be asked as thoughtfully as possible. This requires us to understand not only the various religious and philosophical answers (to choose wisely you must know your options), but also the question's terms ("what do 'meaning' and 'life' mean?") and historical conditions (is the question pressing perennially or only in secular societies where life has lost its meaning?). In this course students learn how to ask the question of life's meaning well in the hopes that thereby they live better, more meaningful lives.

Prerequisite: 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG334H1 - Religion, Space and Diaspora

Hours: 24L

This course explores the transformation of religion, space and practices in diasporic settings. How is space adapted to the sensibilities of diasporic subjects, and how are the ritual practices that take place in those spaces transformed? The course examines historical and contemporary examples of the impact of diasporas, exile, and immigration on spatial practices in synagogues, churches, mosques, and temples, and ritual transformations in diaspora.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: [RLG100Y1](#); [RLG200H1](#)

Breadth Requirements: Society and its Institutions (3)

RLG335H1 - How Religions Spread: Networks and Religion

Hours: 24S

Social networks are critical in the maintenance and spread of religions. This course offers an introduction to network concepts and, focusing on ancient Mediterranean religions, examines how religious ideas diffuse; networks and the creation of social capital; intersections of religious and trade or business networks; and the collapse of networks.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

RLG336H1 - Religion and its Monsters

Hours: 24L

A course looking at the theories about and responses to the monstrous in global religious traditions and practices.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG338H1 - Religion and Religiosity in Israel/Palestine

Hours: 24L

Focusing on present-day Israel/Palestine, this interdisciplinary course is intended for students interested in exploring a wide range of theoretical questions and examining their applicability to the study of sites, texts, rituals, and politics in the region. We will address the history of the land's consecration from Jewish, Christian, and Muslim perspectives. Students will analyze specific sites associated with religious congregations and ritual practices, and study them within their local and regional contexts. Looking at the complex relationships between religious-political movements and institutions within Jewish and Muslim societies, we will delve into various attempts to secularize (and theologize) Jewish and Palestinian communities and their discontents. Rather than providing the typical emphasis on conflict, the course is a journey into the history and present of the land and its diverse communities.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

RLG339H1 - Religious Ethics: The Jewish Tradition

Previous Course Number: RLG221H1

Hours: 24L

A brief survey of the Jewish biblical and rabbinic traditions; the extension of these teachings and methods of interpretation into the modern period; common and divergent Jewish positions on pressing moral issues today.

Prerequisite: Completion of 4.0 credits

Exclusion: RLG221H1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG341H1 - Dreaming of Zion: Exile and Return in Jewish Thought

Hours: 24L

An inquiry into the theme of exile and return in Judaism, often called the leading idea of Jewish religious consciousness. Starting from Egyptian slavery and the Babylonian exile, and culminating in the ideas of modern Zionism, the course will examine a cross-section of Jewish thinkers--ancient, medieval, and modern.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG342H1 - Judaism in the Early Modern Era

Previous Course Number: RLG342Y1

Hours: 24L

The development and range of modern Jewish religious thought from Spinoza, Mendelssohn and Krochmal, to Cohen, Rosenzweig and Buber. Responses to the challenges of modernity and fundamental alternatives in modern Judaism.

Prerequisite: Completion of 4.0 credits

Exclusion: RLG342Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG343H1 - Kabbala: A History of Mystical Thought in Judaism

Hours: 24L

A historical study of the Kabbala and the mystical tradition in Judaism, with emphasis on the ideas of Jewish mystical thinkers and movements.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG344H1 - Antisemitism

Hours: 24L

Explores how "Jews" have been viewed (often mistakenly and confusedly) in various contexts from pre-Christian antiquity to the contemporary world. Emphasis is on problems involved in defining and explaining antisemitism, especially concerning the difference between religious and racial forms of antisemitism.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

RLG345H1 - Social Ecology and Judaism

Hours: 24L

The environment and human society studied as systems of organization built for self-preservation. Such topics as vegetarianism and the humane treatment of animals, suicide and euthanasia, sustainability and recycling, explored from the perspective of Judaism.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

RLG346H1 - Time and Place in Judaism, Christianity, and Islam

Hours: 24L

Judaism, Christianity, and Islam each have their own sets of prayer times, frequency of prayers and their locations such as home, synagogue, temple, church or mosque. They have completely different calendrical systems. Holiness is also connected to geographical locations, which often serve as destinations of pilgrimage. This course will examine linear and cyclical times and the concepts of holiness in time and place by looking at

primary sources in translation. We will investigate the persistence of holy places, how their names continue, and how gender issues are part of the jurisdictional politics of disputes over place and time.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: 0.5 credit in [RLG202H1](#)/[RLG203H1](#)/[RLG204H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG347H1 - Judaism in the Late Modern Era

Hours: 24L

Continuing from, but not presupposing, "Judaism in the Early Modern Era," the course will trace the late modern stages in the development of Jewish thought, and will bring the history of modern Jewish thought to the present.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: [RLG342H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

RLG348H1 - Philosophical Responses to the Holocaust

Previous Course Number: RLG220H1

Hours: 24L

This course deals with how the momentous experience of the Holocaust, the systematic state-sponsored murder of six million Jews as well as many others, has forced thinkers, both religious and secular, to rethink the human condition.

Prerequisite: Completion of 4.0 credits

Exclusion: [RLG220H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG349H1 - Special Topics in Judaism

Hours: 24S

This course offers an opportunity to explore a topic in Judaism. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG350H1 - The Life of Muhammad

Hours: 24L

This course examines Muhammad's life as reflected in the biographies and historical writings of the Muslims. Students will be introduced to the critical methods used by scholars to investigate Muhammad's life. Issues include: relationship between Muhammad's life and Quran teachings and the veneration of Muhammad.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: [RLG204H1](#)/[RLG204H5](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG351H1 - The Quran: An Introduction

Hours: 24L

The revelatory process and the textual formation of the Quran, its pre-eminent orality and its principal themes and linguistic forms; the classical exegetical tradition and some contemporary approaches to its interpretation.

Prerequisite: Completion of 4.0 credits

Exclusion: [NMC285H1](#), [NMC285Y1](#), [NMC286H1](#)

Recommended Preparation: [RLG204H1](#)/[RLG204H5](#)

Breadth Requirements: Creative and Cultural Representations (1)

RLG352H1 - Post-Colonial Islam

Hours: 24L

This course will study Islam in a post-colonial framework. It will introduce students to the work of post-colonial studies, and how critical scholarship has transformed our understanding of monolithic concepts such as modernity, the nation and Islam. It will focus on the particular case of Islam in South Asia and the Middle East by exposing students to the transformative impact of colonialism. It will equip students with the tools to challenge the hegemonic notion of a singular 'tradition' in Islam by tracing its lineages in the post-colony.

Prerequisite: Completion of 4.0 credits

Exclusion: [NMC381Y1](#), [RLG250H1](#)

Breadth Requirements: Society and its Institutions (3)

RLG353H1 - The Politics of Charity

Previous Course Number: RLG250H1

Hours: 24L

The course examines religious charitable giving, philanthropic foundations, and humanitarian aid and asks: Is charitable giving altruistic or is it always partly self-interested? Could aid perpetuate poverty? What kinds of "strings" come with receiving aid and is there such thing like a free gift?

Prerequisite: Completion of 4.0 credits

Exclusion: RLG250H1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG354H1 - Marriage and Divorce in Islamic Thought and Practice

Hours: 24S

This course begins with a survey of the Islamic intellectual tradition on the topics of how people get married, the age of marriage, the emotional and legal bond between spouses, procreation and contraception, divorce, widowhood, and child custody. It continues with an examination of the history of marriage and divorce documents and the relationship between religious theory and social practice. It concludes with an exploration of contemporary discussions within Muslim communities around the world surrounding issues of dowries, polygamy, and divorce.

Prerequisite: Completion of 4.0 credits

Exclusion: RLG458H1 (Advanced Topics in Islam: *Marriage and Divorce in Islamic Thought and Practice*) offered in Winter 2024.

Recommended Preparation: RLG204H1

Breadth Requirements: Society and its Institutions (3)

MHB355H1 - Advanced Modern Hebrew I

Hours: 36L/12T

Advanced intensive study of written and spoken Hebrew.

Prerequisite: MHB256H1/ NML256H1 or permission of the instructor based on previous language knowledge

Exclusion: OAC Hebrew/ NML355H1

Breadth Requirements: Creative and Cultural Representations (1)

RLG355H1 - Living Islam

Hours: 24S

This course introduces students to studies of contemporary Islam that are based on extensive periods of research with Muslim communities in their own languages using anthropological methods. What do such studies teach us about the varied ways Muslims engage their religious tradition in the modern world? And how can such studies make us think differently about gender, economy, medicine, and secularism?

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

MHB356H1 - Advanced Modern Hebrew II

Hours: 36L/12T

Continued advanced intensive study of written and spoken Hebrew.

Prerequisite: MHB355H1/ NML355H1 or permission of the instructor based on previous language knowledge

Exclusion: OAC Hebrew/ NML356H1

Breadth Requirements: Creative and Cultural Representations (1)

RLG358H1 - Special Topics in Hinduism

Hours: 24L

This course offers an opportunity to explore a topic in Hinduism. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the Department for the Study of Religion website.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG359H1 - Intermediate Sanskrit I

Hours: 24L

Review of grammar and the development of vocabulary with a focus on reading simple narrative prose and verse.

Prerequisite: RLG260H1, RLG263H1

Breadth Requirements: Creative and Cultural Representations (1)

RLG360H1 - Intermediate Sanskrit II

Hours: 24S

Review of grammar and the further development of vocabulary with a focus on reading simple narrative prose and verse.

Prerequisite: RLG359H1

Breadth Requirements: Creative and Cultural Representations (1)

RLG361H1 - Literatures of Hinduism

Hours: 24L

A study of the literatures of Hinduism in India and the diaspora, including issues of identity formation, nostalgic constructions of the "homeland", fictional representations, and the quest for authenticity.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG362H1 - Rama of Ayodhya: From Literature to Politics

Hours: 24L

A study of the figure of Rama, from his genesis in the Valmiki Ramayana, to his historical evolution as a cultural and political icon through mediaeval and modern India.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG363H1 - Bhakti Hinduism

Hours: 24L

A study of Hindu bhakti traditions through classical and vernacular texts, in conversation with colonial and post-colonial theoretical perspectives on the notion of "bhakti" in Hinduism.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

JPR364H1 - Religion and Politics in the Nation State

Previous Course Number: JPR364Y1

Hours: 24L

This course will engage with contemporary debates on religion and politics in the context of the nation-state in our post-9/11 world, and will do so comparatively across a wide range of contexts.

The emphasis will be on understanding the evolving relationship between religion and politics in liberal democracies, and examining challenges facing democratic politics from the religious sphere, both in the West, where secular liberalism is the dominant framework for discussing these questions, and in Africa, India, and the Middle East, where such a framework is more likely to be contested. The themes explored will include secularization, religious pluralism and tolerance, human rights regimes, the idea of "civil religion," the impact of religion on party politics, the formation of identity and political community, the legal regulation of sometimes-competing claims based on religious faith, gender, and sexuality, and the rise of extremist forms of religious politics, conspiracy thinking, new online communities that lead to dangerous political outcomes, such as 'QAnon' and 'Plandemic'. Cases studies will include the USA, Canada, France, Turkey, Egypt, Nigeria.

(Given by the Departments of Political Science and Religion)

Prerequisite: 0.5 credit in POL/ JPI/ RLG courses at the 200+ level, or 1.0 credit in HIS/ PHL/ SOC courses at the 200-level

Exclusion: JPR364Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG365H1 - Modern Hinduism

Hours: 24L

The development of modern Hindu religious thought in the contexts of colonialism, dialogue with the West and the secular Indian state.

Prerequisite: RLG100Y1/ RLG205Y1/ RLG280Y1; see note above for general Prerequisites

Breadth Requirements: Society and its Institutions (3)

JPR365H1 - Global Religion and Politics

Previous Course Number: JPR364Y1

Hours: 24L

This course will engage with contemporary debates on religion and politics in the international context in our post-9/11 world, and will do so comparatively across a wide range of contexts.

The emphasis will be on understanding the evolving role transnational religion has played in the past three decades, where new global networks have emerged as central global actors. We will focus empirically on the rise of radical reformist Islam and evangelical Christianity, the two most dramatically successful forms of religiosity around the world today. We will study the implications for the foreign policies of key nation-states, as well as the forces that have contributed to the prevalence of contestatory religious politics and networks as new and poorly understood global actors. International religious freedom, human rights, the role of media and mediation, the place of religious or theological doctrines or imaginaries in constructing and motivating a range of political goals, many involving the use of violence. We will focus as well on the global spread of extremist forms of religious politics, conspiracy thinking, new online communities that lead to dangerous political outcomes, such as 'QAnon' and 'Plandemic'. Many of the cases will focus on the non-Western world, especially the Middle East and Africa. *(Given by the Departments of Political Science and Religion)*

Prerequisite: 0.5 credit in POL/ JPI/ RLG courses at the 200+ level, or 1.0 credit in HIS/ PHL/ SOC courses at the 200-level

Exclusion: JPR364Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG366H1 - Hindu Philosophy

Hours: 24L

A study of different schools, texts, and issues of Hindu philosophy.

Prerequisite: RLG100Y1/ RLG205Y1/ RLG280Y1; See note above for general Prerequisites

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG368H1 - Hindu Ways of Living

Hours: 24L

The course surveys the textual sources of the practices of Yoga, Ayurveda and Hindu traditions such as domestic rituals, rites of passage and community centered religious activity. It critically evaluates the assumption of an unbroken continuity of tradition of these practices from antiquity onwards and comes to consider what they have come to constitute as a result of modernity and globalization.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG369H1 - The Mahabharata

Hours: 24L

A study of the great Sanskrit epic, the Mahabharata.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG371H1 - Interdependence

Hours: 24L/12P

An exploration of the Buddhist concept of interdependence, or interdependent origination, from doctrinal and contemplative perspectives, as presented in classic Buddhist texts and as used in contemporary environmental and activist movements globally.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: RLG206H1

Breadth Requirements: Creative and Cultural Representations (1)

RLG372H1 - Engaging Tibet

Hours: 24L

This course examines the history of global engagement with Tibetan religions, including contemporary adoptions of Tibetan religious identities outside the Tibetan plateau. The course begins in the Buddhist past by examining some of the earliest recorded Tibetan debates on religious identity and authority. It then moves to the modern period to compare non-Tibetan depictions of Tibetan religious traditions with indigenous Tibetan forms of self-representation. The course thus addresses questions regarding the plurality of Tibetan religious identities from Buddhist to Bön to Islamic and the ways that these identities interact with historical romanticizations of Tibet.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: RLG206H1/ RLG206H5

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG373H1 - Buddhist Ritual

Hours: 24L

Daily worship, the alms round, life-crisis celebrations, healing rituals, meditation, festivals, pilgrimage, the consecration of artefacts and taking care of the ancestors are among the forms of Buddhist ritual introduced and analyzed in this course. Liturgical manuals, ethnographic descriptions and audiovisual records form the basis for a discussion of the role of ritual as text and event.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: RLG206H1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG374H1 - Buddhist Life Stories

Hours: 24L

This course explores the genres of autobiography and biography in Buddhist literature. The course will begin with theoretical studies on narrative and religious life-writing. We will then consider the development and distinctive features of auto/biographies and hagiographies in the literature of one or more Buddhist cultures, analyzing representative examples of these genres from a range of traditions and historical periods, and considering how these sources have been understood and used in secondary scholarship.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

JPR374H1 - Religion and Power in the Postcolony

Hours: 24L

This course examines the role of a variety of religious forms and spiritual practices in the politics of postcolonial societies, tracing their genealogies from the colonial period to the present. Cases taken principally from Africa and Asia.

(Given by the Departments of Political Science and Religion)

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA courses at the 200+ level, or 1.5 credits in RLG courses

Breadth Requirements: Society and its Institutions (3)

RLG375H1 - Biohacking Breath

Hours: 24L/24P

This course explores Buddhist practices of manipulating – or “biohacking” – the breath or “winds” (prāṇa) of the human body, covering relevant theories of human anatomy and physiology and the religious, philosophical, and medical teachings alongside which these practices developed. Intentional breathing practices in the history of European thought and the role of breathwork in contemporary global biohacking movements will also be studied for comparison and contrast. During experiential lab sessions, basic prāṇāyāma and other breathing practices will be learned and practiced with the guidance of qualified teacher-practitioners.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG376H1 - Touching the Earth

Hours: 24L

A study of Buddhist relationships with the earth, including “earth touching” contemplative practices, ritual ceremonies for land spirits or sacred sites, geomantic and cosmographic traditions, the use of landscape imagery to depict enlightenment, contrasts between wilderness and urban spaces, and contemporary ecological movements in Buddhist communities and their responses to climate disruption. The course combines experiential learning approaches and outdoor excursions with reading and written work.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG377H1 - Intermediate Tibetan I

Previous Course Number: RLG370Y1

Hours: 36S

This course provides a review of classical Tibetan grammar through the study and translation of texts from a variety of genres. These include selections from Tibetan philosophical works, canonical Buddhist discourses, Tibetan historical writings, autobiographies, and dream narratives.

Prerequisite: One year of Tibetan or equivalent. Please consult instructor with questions about eligibility.

Exclusion: RLG370Y1

Recommended Preparation: One year of classical Tibetan or the equivalent.

Breadth Requirements: Creative and Cultural Representations (1)

RLG378H1 - Intermediate Tibetan II

Previous Course Number: RLG370Y1

Hours: 36S

This course provides a review of classical Tibetan grammar through the study and translation of texts from a variety of genres. These include selections from Tibetan philosophical works, canonical Buddhist discourses, Tibetan historical writings, autobiographies, and dream narratives.

Prerequisite: One year of Tibetan or equivalent. Please consult instructor with questions about eligibility.

Exclusion: RLG370Y1

Recommended Preparation: One year of classical Tibetan or the equivalent.

Breadth Requirements: Creative and Cultural Representations (1)

RLG379H1 - Religions of the Silk Road

Previous Course Number: RLG245H1

Hours: 24L

An historical introduction to the religious traditions that flourished along the Silk Road, including Zoroastrianism, Manichaeism, Nestorian Christianity, Judaism, Buddhism and Islam. Drawing on a variety of sources (textual, archaeological, works of art), the course will focus on the spread and development of these traditions through the medieval period. Issues include cross-cultural exchange, religious syncretism, ethnic identity formation and so on. Emphasis will also be placed on religious and political events in modern Central Asia.

Prerequisite: Completion of 4.0 credits

Exclusion: RLG245H1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG380H1 - Trauma, Healing & Transformation

Hours: 24L

This course focuses upon the psychology of religion from the perspectives of psychoanalysis, affective neuroscience, attachment theory and evolutionary psychology. We explore the role of entheogens, psycholytics and dreams in facilitating and shaping mystical experiences of unseen realms. We will explore relationships and boundaries between belief and knowledge, subjective and objective experiences, as well as phantasy, dreams and visions. How are the insights of the founders of the field being updated by contemporary neuroscientific and evolutionary theories? We consider visionary, esoteric and paranormal experiences along with the distinctions between mental health and pathology.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG383H1 - Interpretation and Dialogue

Hours: 24L

Can we understand the beliefs and behaviors of people whose religious and cultural outlooks differ radically from our own? Do we always impose our preconceptions on them? Or are there cognitive, imaginative, and emotional resources that enable us to see people on their own terms? These questions, which beset the practices of anthropologists and historians of religions, are central to the philosophy of the human sciences. This course explores the theoretical issues involved in interpretation and dialogue across cultural and historical divides by reading seminal texts by Dilthey, Collingwood, Heidegger, Quine, Davidson, Winch, MacIntyre, Benedict, Geertz, and Rorty.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG384H1 - Pluralism and Toleration

Hours: 24L

This course traces the development of philosophical arguments in favor of toleration or pluralism that emerged first in response to bitter religious conflicts and then out of a growing recognition of the potential benefits of the normative diversity characteristic of modern societies. Typical philosophers to be studied are Bodin, Spinoza, Locke, Bayle, Lessing, Herder, and Mill.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

RLG385H1 - Becoming Modern: Institutions, Individuals, and the Dark Side of Modernity

Hours: 24L

What does it mean to be modern? Words like “modern,” “modernity,” and “modernism” are used to mark a fundamental boundary between our era and all that came before it (or lies outside of it); but most of us are hard-pressed to offer a solid account of what exactly this boundary is. This course examines the relationship between: a fundamental shift in the nature of daily experience; an order-of-magnitude expansion of the power of the State; a dramatic reorganization of religious experience and cultures; and a tremendous growth in the enterprise of Western science and technological production. We trace this reorientation over the last two centuries and examine its consequences using philosophical, literary, theological, and scientific sources, as well as recent scholarly work on the topic.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

RLG386H1 - Devotional Literature of Early Modern India

Hours: 24L

This class is an introduction to the devotional literature of early modern India (c. 1500-1800), but more importantly, it is about thinking critically and developing skills in close reading of texts. In addition to learning about historical, religious, and social contexts of various literary traditions in Brajhasha, students will be expected to demonstrate their ability to analyze and interpret texts by actively participating in class discussions and by writing a well-argued final paper. The focus will be on the *what* of literary traditions but also on the *how* and *why* these traditions made sense to people in the past and are still relevant to us, today.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG387H1 - Religion and Science

Hours: 24L

Course explores issues at the intersection of religion and science which may include such topics as evolution and the assessment of its religious significance by different traditions, conceptions of God held by scientists (theism, pantheism, panentheism), ethical issues raised by

scientific or technological developments (cloning or embryonic stem cell research), philosophical analysis of religious and scientific discourses.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG388H1 - Special Topics I

Hours: 24L

This course offers an opportunity to explore a topic in the study of religion. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

Prerequisite: Completion of 4.0 credits

RLG389H1 - Special Topics II

Hours: 24L

This course offers an opportunity to explore a topic in the study of religion. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

Prerequisite: Completion of 4.0 credits

RLG390H1 - Thinking with Spirits

Hours: 24S

Possession, trance, communication with the spirits of the dead, visitations by gods, demons, or spectral presences from unseen, otherworldly realms are common features of human experience. What are the psychological, emotional and mental capacities that give rise to such ecstatic, extraordinary experiences? What is the role of unconscious fantasy and projection in such experiences and how do these ideas contribute to explanatory theories seeking to account for them? What contribution can psychoanalysis make to enriched, generous and non-pathologizing understandings of the wide variety of spirit encounters, communications and visions that have been reported throughout history and across cultures? This course will draw upon disciplines such as psychoanalysis, anthropology, neuropsychology and the study of religion in order to think deeply and sensitively about and with spirits.

Prerequisite: 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG391H1 - Modern Atheism and Critique of Religion: Hegel to Nietzsche

Hours: 24L

Examines select modern thinkers and their critical approaches to the nature and significance of religious beliefs and practices. Hegel, Feuerbach, Marx, and Nietzsche are among the major thinkers studied.

Prerequisite: Completion of 4.0 credits

Exclusion: [RLG310Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG392H1 - The European Enlightenment and Religion

Hours: 24L

This course explores some of the major thinkers of the European Enlightenment and their philosophical inquiries into the meaning and significance of religion as a set of cultural institutions. Special attention is paid to the analysis of religious concepts and institutions along epistemological, ethical, and political lines.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG393H1 - Graphic Religion: Myth and the Spiritual in Graphic Novels

Hours: 24L

Survey of themes connecting religious ideas, symbols, and representations with graphic novels and sequential art. The course will explore techniques of story-telling in mythic and visual representations in religious traditions and explore how these techniques and images are mirrored within popular comic-style (sequential) art.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG394H1 - Religion in the Game of Thrones

Hours: 24L

Religion weaves complex social logics and social rationales imbedded in all levels of culture. This course explores multiple questions of religion as a cultural element, both visible and invisible. Theories of religion as well as questions of gender, authority, and power will be examined. The course culminates in a student project oriented toward an academically oriented "Handbook" for the study of religion in the Game of Thrones.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG395H1 - Is Religion Useful?

Hours: 24L

While some philosophers count truth and falsehood decisive when evaluating religion, others regard that focus as beside the most crucial point, namely, whether religion is good or bad for us. In other words, the reasons that they cite in favor of or against religious beliefs, rituals, associations, etc. are instead its social, ethical, or psychological utility or disutility. This course looks at these philosophical debates about whether and how religion might be useful to us in our individual and collective lives.

Prerequisite: 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG396H1 - The Soul of Food: Religion, Food, and the Construction of Community

Hours: 24L/12P

Food is an essential part of religion, but how does food - how it's produced, prepared, and consumed - reveal the values and beliefs of religious communities? How do the material practices of food - including dietary laws, rituals, feasts, and fasts - construct religious identity and community? This course will challenge students to think about these questions through experiential learning opportunities, including a community-engaged research project and guided visits to local religious food sites. Through active learning, critical thinking, and reflective practice, students will examine the ways in which food has significant social and ethical implications for religious communities.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

Course Experience: Partnership-Based Experience

RLG397H1 - Readings in Early Sikh Texts

Hours: 24L

This class is an introduction to early Sikh texts in their original language and in translation. In addition to learning the grammar of what Christopher Shackle has called 'the sacred language of the Sikhs' and acquiring translation skills, students will be expected to demonstrate their ability to analyze and interpret texts in relation to their contexts of production.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

RLG398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

RLG399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

RLG400Y1 - Independent Studies Abroad

Intensive programs of study including site visits and lectures in areas of religious significance abroad. Preparatory work expected, together with paper or assignments upon return.

(Y1 course: 4 weeks minimum; H course: 2 weeks minimum)

Not eligible for CR/NCR option.

RLG401H1 - Independent Studies Abroad

Intensive programs of study including site visits and lectures in areas of religious significance abroad. Preparatory work expected, together with paper or assignments upon return.

(Y1 course: 4 weeks minimum; H course: 2 weeks minimum)

Not eligible for CR/NCR option.

RLG402H1 - Independent Studies Abroad

Intensive programs of study including site visits and lectures in areas of religious significance abroad. Preparatory work expected, together with paper or assignments upon return.

(Y1 course: 4 weeks minimum; H course: 2 weeks minimum)

Not eligible for CR/NCR option.

RLG404H1 - Departmental Capstone-Research

Hours: 24S

This seminar gives you the chance to explore the role of research in undergraduate education, and to construct a retrospective view of your and others' experiences of studying religion in the university. Each student will also develop a research project and will examine a range of audiences for their research, from specialists in their field, to wider academic scholars, to an audience beyond the university. Interaction between students will be a central feature of the work of the seminar. Open to students in the

Majors and Specialists of the Department for the Study of Religion.

Prerequisite: Completion of 14.0 credits

RLG405H1 - Departmental Capstone-Practical

Hours: 24S

A capstone seminar that emphasizes integration of the study of religion with contemporary public life in the development of a research project, locating a research specialization in relation to non-academic contexts, and communicating the process and results of a research project to non-academic audiences. Open to students in the Majors and Specialists of the Department for the Study of Religion.

Prerequisite: Completion of 14.0 credits

RLG406H1 - Constructing Religion

Hours: 24S

How have different researchers constructed 'religion' as their object of study, and are some frameworks simply incompatible with each other? We discuss – but also provide critical assessments of -- different theoretical and methodological frameworks. Open to students in the Majors and Specialists of the Department for the Study of Religion.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG407H1 - The World of "World Religion"

Hours: 24S

A seminar examining the development of western discourses of world religions. We shall explore the roots of these discourses and examine their implications in the academic study of religion in North America and in other parts of the world. Open to students in the Majors and Specialists of the Department for the Study of Religion.

Prerequisite: Completion of 9.0 credits

Recommended Preparation: RLG200H1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG410Y1 - Advanced Topics in Religion

Hours: 24S

This course offers an opportunity to explore a specialized topic in the study of religion. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

Prerequisite: Completion of 9.0 credits

RLG411H1 - Advanced Topics in Religion

Hours: 24S

This course offers an opportunity to explore a specialized topic in the study of religion. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

Prerequisite: Completion of 9.0 credits

RLG412H1 - Advanced Topics in Religion

Hours: 24S

This course offers an opportunity to explore a specialized topic in the study of religion. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

Prerequisite: Completion of 9.0 credits

RLG414H1 - Comparing Religions

Hours: 24S

Few methods have been more foundational to the scholarly study of religion, or more subject to searching criticism, than the practice of comparison. This seminar offers an advanced introduction to comparative method through close study of 4-6 recent works, from ritual studies, philosophy of religion, comparative theology and/or ethnography.

Prerequisite: Completion of 14.0 credits, 1.0 credit of which should be in CHC/ SMC/ RLG

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG415H1 - Performance, Gender, Religion

Hours: 24S

"Performance, Gender, Religion" will explore gendered religious experience through the lens of performance and theories of performativity. Topics include: The inculcation of religious norms through required gender performance, the performative dimension of religious ritual, and performance culture within religious communities. We will not only consider the ways in which "manhood" and "womanhood" are performed, we will also consider performances that critique and confront these categories. Students will have the opportunity to engage in a research project on gender performance from a specific cultural context.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG416H1 - Topics in Religion and Gender

Hours: 24S

This course offers an opportunity to explore a topic focusing on the intersection of religion and gender. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

Prerequisite: Completion of 9.0 credits

RLG418H1 - Advanced Topics in the Philosophical Study of Religion

Hours: 24S

A seminar that explores a topic in the philosophical study of religion. Possible topics include: the nature of religious truth; the phenomenology of religion; descriptions of the holy; religion and the meaning of life; God-talk as literal or metaphorical language; naturalizing religious belief. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

Prerequisite: Completion of 9.0 credits, including [RLG209H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG419H1 - Ghosts to Ancestors: Racialized Hauntings and Reparative Promise in Psychoanalysis

Hours: 24S

All forms of injustice disfigure both societies and psyches. Racist, sexist, and other unconscious fantasies of evil and persecuting 'others' generate social injustice. At the same time, social injustice distorts the mind. This "dual track" process can drive human beings and their societies mad. Justice depends upon transformations of social structures and moral codes as well as changes within human minds. In order for psychoanalysis to realize its own potential for facilitating justice, it must confront its own historical contribution to injustice. Through a close reading of selected texts from Sigmund Freud and the activist psychiatrist Franz Fanon, this course explores the inherent tensions between colonizing and emancipatory themes within psychoanalytic discourses. Both Freud and Fanon contribute to a psychoanalytic critical theory that have influenced several contemporary ethnographic writers who explore the intricate ways in which social and cultural realities are internalized as unconscious hauntings and tormenting spirits across generations.

Prerequisite: Completion of 9.0 credits, including at least one of [RLG211H1](#)/ [RLG301H1](#)/ [RLG302H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

JPR419H1 - Secularism and Religion

Previous Course Number: RLG419H1

Hours: 24S

Themes considered include what notion of religion is necessary for secular governance, and how secularity relates to particular discourses of citizenship and practices of political rule. Case studies include the effects of colonial rule on religious life; Jewish emancipation in Europe; and religious freedom in France and North America.

(Given by the Departments of Political Science and Religion)

Prerequisite: 2.0 credits in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA/ RLG courses at the 200+ level. Students who do not meet the prerequisites are encouraged to contact the instructor.

Exclusion: [RLG419H1](#)

Breadth Requirements: Society and its Institutions (3)

RLG420H1 - Religion and Philosophy in the European Enlightenment

Hours: 24S

An advanced study of selected Enlightenment thinkers with a focus on their interpretations of religion. The main thinkers discussed are Spinoza, Hume, and Kant. Issues include the rational critique of traditional religion, the relations among religion, ethics and politics, and the pursuit of universal approaches to religion.

Prerequisite: Completion of 9.0 credits, including at least one of [RLG310H1](#)/ [RLG392H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG421H1 - Fragments of Redemption: Sigmund Freud and Theodor Adorno

Hours: 24S

This course will challenge the prevailing view that the thought of Sigmund Freud and Theodor Adorno is so deeply pessimistic as to be devoid of hope. Freud's psychoanalytic theories are widely (mis)interpreted in the register of a crude pansexualism and biological determinism. Adorno's critique of society and the individual is often (mis)interpreted as so ruthlessly pervasive that it forecloses on any possibility for emancipatory transformation. This is a distorted view of both thinkers, that misses the hopeful, utopian currents that motivate and shape psychoanalysis and critical theory. The course will explore the emancipatory currents in Freud and Adorno, and their implications for potentialities of individual, social and ecological transformation.

Prerequisite: Completion of 14.0 credits

Recommended Preparation: [RLG211H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG422H1 - Kant's Theory of Religion

Hours: 24S

An advanced study of Immanuel Kant's theory of religion, as developed in major writings such as Critique of Practical Reason and Religion within the Boundaries of Mere Reason. Emphasizes rational ethical criteria as the basis for analyzing the doctrines, symbols, and institutions of historical religions.

Prerequisite: Completion of 9.0 credits, including at least one of [RLG310H1](#)/ [RLG392H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG423H1 - Great Critics of Religion

Hours: 24S

An advanced study of the work of David Hume on the topic of religion. We explore Hume's empiricist and skeptical methodologies as applied to religious concepts and doctrines, and we unravel the many literary devices he used to protect himself from persecution. Works studied include the Enquiry concerning Human Understanding, Natural History of Religion, and Dialogues concerning Natural Religion.

Critics will vary by term and instructor.

Prerequisite: 9.0 credits, including at least one of [RLG310H1](#)/ [RLG392H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG425H1 - Hermeneutics and Religion

Hours: 24S

A study of how principles of textual interpretation and theories of language have been central to modern philosophy of religion. We begin with Schleiermacher, and then move to an in-depth treatment of the 20th century hermeneutical theories of Heidegger, Gadamer, and Ricoeur.

Prerequisite: Completion of 9.0 credits, including at least one of [RLG310H1](#)/ [RLG392H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG426H1 - Religion in the Public Sphere: Community-Engaged Learning

Hours: 24S

In a 55-hour placement with a community partner, students are given an opportunity to learn about and reflect upon the ways that religion and religious diversity shape public life. How do individuals and organizations recognize and negotiate the intersections of religious diversity, culture, and public space in the context of engaging with public policy? Through critical classroom discussions, readings, reflections, and meaningful work for and with front-line community partners, community-engaged learning offers students the opportunity to integrate academic knowledge with experiences outside

the classroom, to challenge themselves, and to explore their values and future directions.

Application Process: By the end of November, interested students must complete the [online application form](#) to indicate their interest in and expectations of community engaged learning, as well as any previous volunteer/co-op/internship experience they may have had. Following submission of student applications, the course instructor(s) will contact student applicants individually to conduct a brief informational interview. Interviews will be completed by December, at which time students will be directly enrolled by the department.

Prerequisite: RPS coordinator's permission

RLG428H1 - Religion and Economy

Hours: 24L

This course introduces students to classical and contemporary social scientific work on the relation between religion and economy. It draws on classics such as Marx, Weber, and Mauss, as well as recent anthropological work. Topics may include sacrifice, the gift, commodity fetishism, prosperity gospel, neoliberalism, charity, and development.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG430H1 - Advanced Topics in Judaism

Hours: 24S

This course offers an opportunity to explore a specialized topic in Judaism. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

Prerequisite: Completion of 9.0 credits, including [RLG202H1](#)

RLG431H1 - Advanced Topics in Judaism

Hours: 24S

This course offers an opportunity to explore a specialized topic in Judaism. Topics vary depending on the instructor. When offered, a detailed course description of the topic

will be available on the [Department for the Study of Religion website](#).

Prerequisite: Completion of 9.0 credits, including [RLG202H1](#)

RLG432Y1 - Advanced Topics in Judaism

Hours: 48S

This course offers an opportunity to explore a specialized topic in Judaism. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

Prerequisite: Completion of 9.0 credits, including [RLG202H1](#)

RLG433H1 - Maimonides and His Modern Interpreters

Hours: 24S

An introduction to The Guide of the Perplexed by Moses Maimonides, and to some of the basic themes in Jewish philosophical theology and religion. Among topics to be considered through close textual study of the Guide: divine attributes; biblical interpretation; creation versus eternity; prophecy; providence, theodicy, and evil; wisdom and human perfection. Also to be examined are leading modern interpreters of Maimonides.

Prerequisite: Completion of 9.0 credits

Exclusion: POL421H1

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG434H1 - Modern Jewish Thought

Hours: 24S

Close study of major themes, texts, and thinkers in modern Jewish thought. Focus put on the historical development of modern Judaism, with special emphasis on the Jewish religious and philosophical responses to the challenges of modernity. Among modern Jewish thinkers to be considered: Spinoza, Cohen, Rosenzweig, Buber, Scholem, Strauss, and Fackenheim.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG435H1 - The Thought of Leo Strauss

Hours: 24S

The philosophic thought of Leo Strauss approached through his writings on modern Judaism. Primarily addressed will be the mutual relations between philosophy, theology, and politics. Among other topics to be dealt with: origins of modern Judaism, Zionism, liberal democracy, and biblical criticism; meaning of Jerusalem and Athens; cognitive value in the Hebrew Bible.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG441H1 - Words and Worship in Christian Cultures

Hours: 24S

How are we to analyze the words that Christians use? And how are such words related to ritual forms? We explore techniques for the analysis of texts, while looking at forms of verbal discourse ranging from prayers, speaking in tongues, and citing the Bible to more informal narratives.

Prerequisite: Completion of 9.0 credits, including at least one of [RLG212H1](#)/ [ANT356H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

RLG447H1 - Magic and Miracle in Early Christianity

Hours: 24S

Magic, religion, astrology, alchemy, theurgy, miracle, divination: all of these phenomena characterize the context and practice of ancient Christianity. This course examines the constitution of these categories, the role and character of these phenomena in the Graeco-Roman world, and the interaction with and integration of these phenomena by ancient Christianity.

Prerequisite: Completion of 9.0 credits, including at least one of [RLG203H1](#)/ [RLG241H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RLG448H1 - Pseudepigraphy in Ancient Mediterranean Religion

Hours: 24S

A seminar examining the phenomenon of falsely claimed and/or attributed authorship in religions of the ancient Mediterranean, mainly Christianity and Judaism. The course examines understandings of authorship and other cultural forms that facilitate or inhibit ancient pseudepigraphy, ancient controversies over authorship, as well as specific pseudepigraphical writings.

Prerequisite: Completion of 14.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

RLG449H1 - The Synoptic Problem

Hours: 36S

Investigation of the history of solutions to the Synoptic Problem from the eighteenth century to the present paying special attention to the revival of the Griesbach hypothesis and recent advances in the Two-Document hypothesis.

Prerequisite: [RLG241H1](#), and at least one of [RLG320H1](#)/ [RLG321H1](#)/ [RLG322H1](#)/ [RLG323H1](#)/ [RLG324H1](#)/ [RLG325H1](#)/ [RLG326H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

RLG451H1 - The Parables of Jesus

Hours: 24S

Examination of the parables in the gospels and other early Christian writers, and major trends in the modern analyses of the parables. Special attention will be paid to the social and economic world presupposed by the parables.

Prerequisite: [RLG241H1](#), and at least one of [RLG320H1](#)/ [RLG321H1](#)/ [RLG322H1](#)/ [RLG323H1](#)/ [RLG324H1](#)/ [RLG325H1](#)/ [RLG326H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

RLG452H1 - The Death of Jesus

Hours: 24S

Examination of the accounts of the passion and death of Jesus in their original historical and literary contexts.

Prerequisite: RLG241H1, and at least one of RLG320H1/
RLG321H1/ RLG322H1/ RLG323H1/ RLG324H1/
RLG325H1/ RLG326H1

Breadth Requirements: Creative and Cultural
Representations (1)

RLG453H1 - Christianity and Judaism in Colonial Context

Hours: 24S

Sets the study of early Christianity and Second Temple Judaism into relation with postcolonial historiography. Topics include hybridity, armed resistance, the intersection of gender and colonization, diaspora, acculturation, and the production of subaltern forms of knowledge. Comparative material and theories of comparison are also treated.

Prerequisite: Completion of 14.0 credits

Breadth Requirements: Society and its Institutions (3)

RLG454H1 - Social History of the Jesus Movement

Hours: 24S

The social setting of the early Jesus movement in Roman Palestine and the cities of the Eastern Empire. Topics will include: rank and legal status; patronalia and clientalia; marriage and divorce; forms of association outside the family; slavery and manumission; loyalty to the empire and forms of resistance.

Prerequisite: RLG241H1, and at least one of RLG320H1/
RLG321H1/ RLG322H1/ RLG323H1/ RLG324H1/
RLG325H1/ RLG326H1

Breadth Requirements: Society and its Institutions (3)

RLG455H1 - Heresy and Deviance in Early Christianity

Hours: 24S

A study of the construction of deviance or heresy within the literature of first and second century Christianity: tasks include a survey of sociological theory in its application to deviance in the ancient world and close readings of selected texts from first and second century Christian and pre-Christian communities.

Prerequisite: Completion of 14.0 credits

Breadth Requirements: Society and its Institutions (3)

RLG458H1 - Advanced Topics in Islam

Hours: 24S

This course offers an opportunity to explore a specialized topic in Islam. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

Prerequisite: Completion of 9.0 credits, including RLG204H1 or RLG355H1

Breadth Requirements: Thought, Belief and Behaviour (2)

JPR458H1 - Postsecular Political Thought: Religion, Radicalism and the Limits of Liberalism

Hours: 24S

The course will examine debates on postsecularism and religion's public, political role as articulated by political thinkers such as Jurgen Habermas, by focusing on politically radical or revolutionary challenges to liberalism in the 20th and 21st century, especially from the postcolonial world, whose theoretical arguments are grounded upon or draw their inspiration from religious traditions, doctrines and practices.

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA /RLG courses at the 300+ level

Breadth Requirements: Thought, Belief and Behaviour (2)

JPR459H1 - Fanaticism: A Political History

Hours: 24S

This seminar in theory will explore the modern history of the concept of 'fanaticism' and its role in the development of political modernity. A focus on the concept of the "fanatic" (and its cognates) from the perspective of its various uses in political and religious thought from the Early Modern period through the Enlightenment and up to the present day, provides a fascinating opportunity for a critical review of the secular, rationalist, and scientific assumptions underwriting modern political forms and concepts, especially those of liberal democracy. At the same time, the course will offer critical insight into the ways in which religious and political differences among colonial "others" were, and continue to be, central to the elaboration of Western theoretical discourse on fanaticism and extremism as forms of "political pathology". (*Given by the Departments of Political Science and Religion*)

Prerequisite: (2.0 credits in Political Theory and/or Philosophy including 1.0 credit at the 300-level) or (0.5 credit in Method and Theory in the Study of Religion and 1.0 credit at the 300-level in the Study of Religion)
Breadth Requirements: Thought, Belief and Behaviour (2)

RLG460H1 - Ramayana in Literature, Theology, and Political Imagination

Hours: 24S

This course explores how this conception is the result of a historical process by examining documentable transformations in the reception of the Ramayana. Our focus will be on the shift in the classification of the Ramayana from the inaugural work of Sanskrit literary culture (adi-kavya) in Sanskrit aesthetics to a work of tradition (smṛti) in theological commentaries, the differences between the Ramayana's ideal of divine kingship and medieval theistic approaches to Rama's identification with Visnu, the rise of Rama worship, and the use of Rama's divinity in contemporary political discourse.

Prerequisite: Permission of instructor
Recommended Preparation: RLG205Y1/ RLG205H1
Breadth Requirements: Creative and Cultural Representations (1)

RLG461H1 - Buddhism and Indigeneity

Hours: 24S

In dominant discourse, Buddhism travels and, upon its arrival, enlightens, reforms, improves, or civilizes whoever was there before. In this course we will ask how that view disagrees with people for whom Buddhism is not something that comes later but something that comes first, who say: "We have always been Buddhists." Such an alternative vision of Buddhism is shared by communities who fight against caste discrimination, occupation by foreign powers, or the destruction of their world. In conversation with members of Indigenous communities visiting our class, we will ask what Buddhist Studies can contribute towards decolonization and Indigenous empowerment, particularly for Indigenous people in Canada.

Prerequisite: Completion of 9.0 credits
Breadth Requirements: Society and its Institutions (3)

RLG462H1 - Newar Religion

Hours: 24L/24T

An academic legend recounts that if you ask a Newar whether he is Hindu or Buddhist the answer is yes. The course deals with the problem of how to study religions which coexist and compete with each other creating shifting coordinates of religious identification from the perspective of one specific Nepalese community.

Prerequisite: Completion of 9.0 credits
Breadth Requirements: Thought, Belief and Behaviour (2)

RLG463H1 - Tibetan Buddhism

Hours: 24S

Close study of major themes, texts, and thinkers in Tibetan Buddhism. Themes and texts will vary by year; consult the departmental website for this year's course description.

Prerequisite: Completion of 9.0 credits
Recommended Preparation: RLG206H1
Breadth Requirements: Thought, Belief and Behaviour (2)

RLG465H1 - Readings in Buddhist Texts

Hours: 24S

An advanced study of select Buddhist texts with a focus on issues of translation, interpretation, commentarial approaches, narrative strategies, as well as issues related to the production, circulation, and consumption of these works. Themes and texts will vary by year; consult the departmental website for this year's course description.

Prerequisite: Reading knowledge of Sanskrit/Pali/Tibetan or Chinese; permission of instructor
Breadth Requirements: Creative and Cultural Representations (1)

RLG468H1 - Special Topics in Buddhism

Hours: 24S

This course offers an opportunity to explore a specialized topic in Buddhism. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the Department for the Study of Religion website.

Prerequisite: Completion of 9.0 credits, including RLG206H1

Breadth Requirements: Creative and Cultural Representations (1)

RLG469Y1 - Readings in Tibetan

Hours: 48L/24S

Advanced readings in Tibetan literature using Tibetan language. Tibetan language skills required.

Prerequisite: Instructor's permission required for admission to course

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

RLG471H1 - Special Topics in Hinduism

Hours: 24S

This course offers an opportunity to explore a specialized topic in Hinduism. Topics vary depending on the instructor. When offered, a detailed course description of the topic will be available on the [Department for the Study of Religion website](#).

Prerequisite: Completion of 9.0 credits, including [RLG205H1](#)

RLG474H1 - Sanskrit Readings I

Hours: 24S

This course will have students read choice pieces of South Asian literature. While tackling a text in Sanskrit from a major literary tradition, Buddhist or Hindu, and discussing its content and context, students will learn strategies for translating and interpreting Sanskrit literature.

Prerequisite: [RLG359H1](#), [RLG360H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

RLG476H1 - Caste and its "Other"

Hours: 24S

This course focuses on works of South Asian fiction and non-fiction that deal with caste in Indian society. By looking at a range of texts from Classical Sanskrit literature in translation to contemporary radical Dalit perspective writings, we aim to arrive at an understanding of why, despite social and economic mobility, caste

remains the indelible marker of modern Indian identity even today.

Prerequisite: Completion of 9.0 credits

Recommended Preparation: [RLG205H1](#)

Breadth Requirements: Society and its Institutions (3)

RLG479H1 - Burmese Buddhist Literature

Hours: 4L/20S

Burma, also known as Myanmar, offers one of the richest literary landscapes in the Buddhist world. This course introduces students to the Buddha's sermons, to the animal lives of struggling bodhisattvas, to the poetic creativity of Mandalay princesses, to the intricacies of the Buddhist philosophy of mind, to the textual regimes of monastic dress codes, and to cosmographies of Buddhist kingship in the interface of South and Southeast Asian religions. Students will be trained to take a critical look at the fascinating world of Buddhist texts, inflected by the scriptural language of Pali, through a specifically Burmese prism.

Prerequisite: 4.0 credits

Recommended Preparation: [RLG206H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

RLG481H1 - Islamic Intellectual Tradition

Hours: 24S

This seminar covers three main areas of the Islamic intellectual tradition: legal, theological and mystical. Each section will be covered by reading an original work translated into English with the aid of secondary literature. The seminar will develop the students' knowledge of the classical Islamic tradition. Students will choose a research topic and develop and present to the class a synopsis of their research. The seminar culminates in writing a research paper on one aspect of the Islamic religious tradition.

Prerequisite: [RLG204H1](#) or [RLG355H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

RLG490Y1 - Independent Studies

Hours: 48S

Student-initiated intensive research courses supervised by faculty members of the Department. The student must obtain both a Supervisor's agreement and the Associate Chair's approval and fill out the Independent Studies Course form in consultation with the Supervisor with information on the proposed course in order to register. The form is available on our [website](#). The maximum number of Independent Studies courses one may take is 2.0 credits. Deadline for submitting applications to Department, including Supervisor's approval, is the end of the first week of classes of the session. A 1.0 credit course may be compressed into a single session or spread through two sessions; a 0.5 credit course may similarly be done in either one session or across two sessions. These courses are open to RLG majors and specialists only. Not eligible for CR/NCR option. Please send completed forms and direct any questions to religion.undergrad@utoronto.ca.

RLG491H1 - Independent Studies

Hours: 24S

Student-initiated intensive research courses supervised by faculty members of the Department. The student must obtain both a Supervisor's agreement and the Associate Chair's approval and fill out the Independent Studies Course form in consultation with the Supervisor with information on the proposed course in order to register. The form is available on our [website](#). The maximum number of Independent Studies courses one may take is 2.0 credits. Deadline for submitting applications to Department, including Supervisor's approval, is the end of the first week of classes of the session. A full-course may be compressed into a single session or spread through two sessions; a half-course may similarly be done in either one session or across two sessions. These courses are open to RLG majors and specialists only. Not eligible for CR/NCR option. Please send completed forms and direct any questions to religion.undergrad@utoronto.ca.

RLG492H1 - Independent Studies

Hours: 24S

Student-initiated intensive research courses supervised by faculty members of the Department. The student must obtain both a Supervisor's agreement and the Associate Chair's approval and fill out the Independent Studies Course form in consultation with the Supervisor with information on the proposed course in order to register. The form is available on our [website](#). The maximum number of Independent Studies courses one may take is 2.0 credits. Deadline for submitting applications to Department, including Supervisor's approval, is the end of the first week of classes of the session. A 1.0 credit

course may be compressed into a single session or spread through two sessions; a 0.5 credit course may similarly be done in either one session or across two sessions. These courses are open to RLG majors and specialists only. Not eligible for CR/NCR option. Please send completed forms and direct any questions to religion.undergrad@utoronto.ca.

RLG493H1 - Independent Studies

Hours: 24S

Student-initiated intensive research courses supervised by faculty members of the Department. The student must obtain both a Supervisor's agreement and the Associate Chair's approval and fill out the Independent Studies Course form in consultation with the Supervisor with information on the proposed course in order to register. The form is available on our [website](#). The maximum number of Independent Studies courses one may take is 2.0 credits. Deadline for submitting applications to Department, including Supervisor's approval, is the end of the first week of classes of the session. This 0.5 credit course may be done in either one session or across two sessions. These courses are open to RLG majors and specialists only. Not eligible for CR/NCR option. Please send completed forms and direct any questions to religion.undergrad@utoronto.ca.

RLG494Y1 - Independent Studies

Hours: 48S

Student-initiated intensive research courses supervised by faculty members of the Department. The student must obtain both a Supervisor's agreement and the Associate Chair's approval and fill out the Independent Studies Course form in consultation with the Supervisor with information on the proposed course in order to register. The form is available on our [website](#). The maximum number of Independent Studies courses one may take is 2.0 credits. Deadline for submitting applications to Department, including Supervisor's approval, is the end of the first week of classes of the session. A full-course may be compressed into a single session or spread through two sessions; a half-course may similarly be done in either one session or across two sessions. These courses are open to RLG majors and specialists only. Not eligible for CR/NCR option. Please send completed forms and direct any questions to religion.undergrad@utoronto.ca.

Research Opportunity/Research Excursions (299/398/399)

Research Opportunities Program: 299H1/ 299Y1/ 399H1/ 399Y1 Courses

Director: Randy Boyagoda, Vice-Dean, Undergraduate
Contact: Office of Experiential Learning and Outreach Support (rop.artsci@utoronto.ca)

The Research Opportunities Program (ROP) provides an opportunity for Arts & Science (St. George) degree students in their second and third year to earn course credit by participating in a faculty member's research project. Each 299H1/ 299Y1/ 399H1/ 399Y1 course has a program-specific designator, such as ANT, CLA, CSB, VIC, etc. Not all departments or programs will necessarily participate in the ROP each year.

In order to be eligible for the program, students must have completed at least 4.0 but not more than 13.5 credits by the end of the term in which they applied for ROP. Students can only participate in one ROP per application cycle and can participate in a maximum of two ROP courses during their undergraduate studies. Students will be placed into a 299 course for their first ROP and a 399 course for their second ROP. Students may not participate in two ROP courses with the same professor. Students apply to ROP projects and are informed in mid-April whether they have been accepted for Summer ROP, and mid-May if they have been accepted for Fall, Fall/Winter, and Winter ROP. Successful applicants are registered by the Office of Experiential Learning & Outreach Support. Regular tuition fees apply.

Assessment and grading methods are determined by individual faculty members and may differ between projects. Students are typically expected to present a poster of their work at the Bi-annual Arts & Science Research Fair.

Details about ROP projects, application deadlines, eligibility, and how to apply are posted on the [Faculty of Arts & Science website](#).

Research Excursions Program: 398H0/ 398Y0 Courses

Director: Randy Boyagoda, Vice-Dean, Undergraduate
Contact: Office of Experiential Learning and Outreach Support (experiential.artsci@utoronto.ca)

The 398 Research Excursions Program (REP) provides an opportunity for Arts & Science (St. George) degree students in their third year (i.e., students who have completed at least 9.0 but not more than 16.0 credits by the end of the Winter term preceding the REP) to participate in an off-campus practical or experiential research activity, under the supervision of a faculty member. The practical, experiential component can take the form of research/learning in archives, laboratories, libraries, or in a field camp, etc.— but not in a classroom at another university (that is covered by the Faculty's summer abroad and exchange programs). REPs may take place in domestic or international locations. The projects run within the May-August period, when both Faculty and students can make the time commitments necessary. The Faculty of Arts & Science covers travel and living expenses for students. Regular tuition fees apply.

Each 398H0/ 398Y0 has a program-specific designator, such as ANT, CLA, CSB, VIC, etc., and would be eligible to count towards program completion if the program sponsor (Chair or Director) so chooses. A limited number of 398H0/ 398Y0 courses are available each year. Faculty supervisors propose the projects and choose students from those who apply. Students are typically expected to present a poster of their work at the Bi-annual Arts & Science Research Fair.

Note: To provide opportunities to as many students as possible, priority will be given to students who have not already received funding for a Faculty of Arts & Science international opportunity, including [IICM](#) or [DIIIF](#).

Details about REP application deadlines, eligibility, course offerings and how to apply are posted on the [Faculty of Arts & Science website](#).

Faculty of Arts & Science-Funded International Programs

Director: Randy Boyagoda, Vice-Dean, Undergraduate
Contact: Office of Experiential Learning and Outreach Support (experiential.artsci@utoronto.ca)

In an effort to provide opportunities to as many students as possible, for Faculty of Arts & Science-funded programs priority will be given to those students who have

not previously received funding for these programs. All participants must be current Arts & Science (St. George) degree students in good standing, and their eligibility must be confirmed by the Experiential Learning & Outreach Support Office prior to acceptance to the program. Participation in a Faculty-funded program does not affect participation in Summer Abroad or student exchange opportunities.

International/Indigenous Course Module (IICM)

The Faculty of Arts & Science's International/Indigenous Course Module (IICM) provides an opportunity for faculty members to incorporate an intensive international or Indigenous experiential module into the framework of existing undergraduate courses. The IICM is designed to enhance students' classroom learning in a wide range of areas through the application of course content to relevant settings and communities around the globe. IICMs are selected in late May and take place over Reading Week the following November or February. Students' participation in the IICM may be incorporated into the final course grade. In many cases, IICM participants share their experiences with the wider Arts & Science community through publications, presentations or web-based resources.

Locations

Courses and locations for Reading Week in the upcoming November or February will be posted in June on the [Faculty of Arts & Science Current Students page](#). Interested students can view stories and highlights of previous IICMs on the [Learning Abroad website](#).

Courses

Past IICMs have examined the role of political changes in the Republic of Georgia, geologic evolution and mining in Spain, historical biography in Uganda and urbanization in China.

Cost

Faculty of Arts & Science provides funding for students' and faculty airfare, accommodation and local transportation. Students may be asked to contribute a deposit towards the IICM, but amounts are capped at \$200.00.

Eligibility

A limited number of IICMs are offered each year and the program is only available to undergraduate Arts & Science (St. George) degree students enrolled in the course(s) in which the module is proposed.

Application

Upcoming IICMs and their corresponding courses will be listed on the [Arts & Science website](#). Students express interest to participate in the IICM through the course professor. Once they are enrolled and faculty members will be responsible for selecting student participants.

If you are interested in working with a faculty member to create an IICM for a course, and for all questions related to the ROP, REP, and IICM programs, please contact: experiential.artsci@utoronto.ca

Undergraduate Research Fund

The Undergraduate Research Fund (URF) is funded jointly by the Arts & Science Students' Union (ASSU) and the Faculty of Arts & Science. It provides funding for students to develop a research project of their own, for which there is no other available funding. The fund is open to all Arts & Science undergraduate students in good academic standing and no minimum GPA is required. Research projects must be initiated by students, related to their degree, and supervised by a faculty member with a continuing appointment in the Faculty of Arts and Science either through a regular course, an independent study, a research essay, or other academic project. For application forms and further information, please see the [URF website](#).

For further information please contact: undergrad.awards.artsci@utoronto.ca

Rotman Commerce

Faculty List

Associate Professor, Teaching Stream and Director, Rotman Commerce

C. Barrette, BCom, GDPA, CPA, CA

Professors

J.H. Amernic, BSc, MBA, FCPA, FCA
 N. Baum-Snow, PhD
 J. Callen, PhD
 K. Corts, BA, PhD
 S. Côté, BSc, MA, PhD
 A. Edwards, BAcc, MAcc, MS, PhD, CPA, CA
 A. Galasso, PhD
 A. Goldfarb, BAH, MA, PhD
 D. Goldreich, BS, MS, MSIA, PhD
 O. Hope, MBA, PhD
 R. Kan, BBA, MBA, PhD
 N. Mehta, Btech, MSIA, MS, PhD
 M. Mitchell, BS, MA, PhD
 S. Moorthy, MSc, MBA, MS, PhD
 B. Reuber, BA, MSc, PhD
 G. Richardson, BA, MBA, PhD
 W. Rotenberg, BA, MBA, PhD
 W. Smieliauskas, MS, PhD
 D. Soberman, BSc, MBA, PhD
 A. Tilcsik, AB, AM, PhD
 G. Whyte, MBA, JD, MA, Mphil, PhD
 L. Yang, PhD
 P. Zhang, BSc, MA, MAcc, PhD

Associate Professors

B. Blum, BA, MA, MA, PhD
 B. Bova, BComm, MBA, PhD
 K. Bryan, BA, MA, MS, MS, PhD
 C. Celerier, MS, MSC, PhD
 L. Doering, BA, MA, MA, PhD
 M. Feinberg, BA, MEd, PhD
 S. Hawkins, BA, MS, PhD
 B. S. Lee, BSc, MA, PhD
 J. Mahrt-Smith, BSc, PhD
 A. Malekian, BSc, MSc, PhD
 G. Newman
 C. Ornthalalai, PhD
 D. Vyas, MSc, PhD
 K. Wang, MA, PhD
 R. Webb, PhD
 B. Xin, PhD

Assistant Professors

D. Akchurina, PhD
 N. Barjesteh, PhD
 R. Catapano, PhD
 A. Corhay, B.Com, M.Sc, PhD
 S. Dimitriadis, BA, M.Phil, A.M., PhD

K. Duke, BA, PhD
 G. Gopalakrishna
 N. Inostroza, BS, MA, MA, PhD
 H. Jiang, BS, MS, PhD
 D. Kim, BSBA, PhD
 S. Knight, BA, MFA, AM, PhD
 C. Lee, BBA, MA, PhD
 H. Lee, BA, MS, PhD
 R. Manning, AB, MPP, MA, PhD
 K. Odziemkowska, PhD
 S. Park, BBA, MA, PhD
 R. Ruttan, PhD
 I. Yi, BBA, MSc, PhD
 Z. Zhong, BA, BSc, MM, MF, PhD

Professor, Teaching Stream

A. MacKay, BSc, MA, PhD
 E. Zuliani, BCom, CPA, CA

Associate Professors, Teaching Stream

W. Adlam, HBA, MBA
 N. Ashraf, MA
 C. Barrette, BCom, GDPA, CPA, CA
 D. Boyko, CFA, CAIA, MA
 C. Geoffrey, BA Hons, MBA
 M. Khan, BCom, MBA, CPA, CA, CGEIT, CISA, CITP
 J. Oesch, BSc, BEd, MEd, MBA, MSc, PhD
 E. Palancz, MA, MBA
 A. Saunders, PhD
 A. Saville
 D. Stojanovic, B.Comm, MEd, CPA, CA
 R. Tassone, BComm, MEd, CPA, CA
 F. Talias, B.Comm, MBA
 G. Trippen

Assistant Professors, Teaching Stream

I. Blackburn
 R. Daroga, BA, MF, MBA
 S. Douglas, BA, PhD
 P. Jan
 E. Kang
 A. Kwan, BA
 A. Motut, BA, MA
 D. Richards
 M. Roman, BA
 V. Roshanaei, PhD
 A. Stoehr
 L. Volpe

Introduction

Rotman Commerce at the University of Toronto offers a rigorous curriculum combining studies in management, economics, and the arts and sciences for an enriched professional undergraduate experience. The program explores the role of commerce in modern society while developing skill and confidence in analysis, effective communications and decision making.

The Bachelor of Commerce degree builds on a common foundation of a range of business disciplines and economics. Rotman Commerce students specialize in one of three areas: Accounting, Finance and Economics, or Management. Each stream combines courses in management and applied economics with a variety of courses in the arts and sciences. The balance assures graduates of a solid understanding of business and modern society along with a command of critical skills across business disciplines, decision-making, and leadership.

Rotman Commerce graduates enter a wide range of professions, and frequently become financial analysts, accountants, marketing analysts, economists, managers of firms and government, or entrepreneurs. Some commerce students elect to undertake post-graduate studies. Law schools and MBA programs have been particularly favoured destinations of recent graduates.

Faculty from the Rotman School of Management who teach in Rotman Commerce are listed above.

General Enquiries: Rotman Commerce Academic Services; Rotman Commerce, 125 St. George Street; email: rotmancommerce.info@utoronto.ca; telephone: 416.978.3339; rotmancommerce.utoronto.ca

Registration Instructions for the Faculty of Arts & Science can be found in the [Program Toolkit](#) and [Course Enrolment Instructions](#) sections of the Arts & Science website.

Bachelor of Commerce (BCom) Degree Requirements

Requirements for the BCom are stated on the [Degree Requirements](#) page.

Rotman Commerce Notes

Enrolment in Rotman Commerce programs is limited. Most students are admitted to first year with Rotman Commerce Guaranteed Admission (see below for terms and conditions). Rotman Commerce students choose their Specialist program after first year, provided that the Guaranteed Admission requirements have been met. A limited number of spaces may also be available in second year for other Arts & Science students who were not admitted with the guarantee (see enrolment requirements with the program information below for details).

Part-Time Students

Students holding Rotman Commerce Guaranteed Admission, who have applied for and been admitted to Part-Time study, will be assessed for entry into the Rotman Commerce program at the point when they have

completed 4.0 credits including the Guaranteed Admission requirements. To qualify under the Part-Time provision, students must have been enrolled in a part-time course load from the beginning of each session. Students may repeat each of the required courses only once in order to attain the minimum marks.

Additional Notes

- **Tuition Fees:** Students enrolling in Rotman Commerce programs pay fees that are higher than other Arts & Science programs.
- **Mathematics Note:** Any of [MAT133Y1](#), [MAT135H1](#) + [MAT136H1](#), [MAT137Y1](#), or [MAT157Y1](#) satisfy the mathematics requirements. Students are strongly recommended to take [MAT133Y1](#), because this course is designed to provide the mathematical knowledge and skills required for further studies in the Rotman Commerce program. In particular, topics in multivariable calculus and linear algebra are included in [MAT133Y1](#). Students who choose instead to take [MAT135H1](#) + [MAT136H1](#), [MAT137Y1](#), or [MAT157Y1](#) will need to learn these topics on their own. Some students choose to take [MAT135H1](#) + [MAT136H1](#) instead if they are more interested in applications of calculus to life sciences or physics than in applications to commerce and economics. Some students who are interested in taking advanced courses in Mathematics, Statistics, or Computer Sciences choose to take [MAT137Y1](#) instead, in order to build their proof-writing skills. Even if you have a high school transfer credit for calculus, we still recommend taking [MAT133Y1](#) to ensure that you have a solid mathematical foundation for the Rotman Commerce program.
- **Maximum Term Load:** Rotman Commerce students are limited to a maximum of 6.0 credits in any Fall/Winter session of their program and a maximum of 2.0 credits in their Summer session.
- Students who have completed the requirements of their Admission Guarantee by the end of the Winter Session are eligible to enroll in 200-level RSM courses during the Summer Session following their first year.

Rotman Commerce Programs

Accounting Specialist (BCom) - ASSPE2676

Rotman Commerce at the University of Toronto offers an innovative curriculum combining studies in management, economics, and the liberal arts for an enriched professional undergraduate experience. The program explores the role of commerce in modern society while developing skill and confidence in analysis, effective

communication, and decision making. The Rotman Commerce program offers a Bachelor of Commerce (BCom) degree in three different specialist programs, Finance & Economics, Accounting, and Management.

All programs within the Bachelor of Commerce degree build on a common foundation of business and liberal arts courses. Rotman Commerce students specialize in one of three programs: Accounting, Finance and Economics, or Management. Each program combines courses in management and applied economics with a variety of advanced courses in the liberal arts and sciences. The balance assures graduates of a solid understanding of business and modern society along with a command of critical skills in decision-making and organizational leadership.

Rotman Commerce graduates frequently become economists, accountants, actuaries, financial analysts, marketing analysts, managers of firms and government, or proprietors of small businesses. Some Rotman Commerce students elect to undertake post-graduate studies in the form of further university education: law schools and MBA programs have been particularly favoured destinations of recent graduates.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

For students admitted to the Rotman Commerce admission category in Year 1:

Special Requirement

- Students are admitted to Year 1 of the Faculty of Arts and Science in the Rotman Commerce admission category with an "admission guarantee." Students admitted with the guarantee are invited to enroll in the program after first year, provided that the course and grade requirements below (i.e., Guaranteed Admission requirements) are met.
- Failure to meet any of these requirements, or failure to complete all the required courses within the calendar year (assuming full-time studies), will result in losing the admission guarantee.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- RSM100H1 (67%)
- ECO101H1 (63%) and ECO102H1 (63%)
- MAT133Y1 (63%) / (MAT135H1 (60%), MAT136H1 (60%)/ MAT137Y1 (55%)/ MAT157Y1 (55%)

Notes:

- Students may repeat any of the required courses once, in order to attain the requisite mark. The repeated course(s) must be completed within the calendar year (as per the terms of the "guarantee"); as such, the repeated course(s) must be taken during either the Winter or Summer Session of first-year (i.e. a student may not extend the terms of their guarantee in order to attain the minimum marks).
- Note that none of the required courses may be completed using the CR/NCR option.

For students NOT admitted to the Year 1 Rotman Commerce admission category:

Special Requirement

- Students must complete the Rotman Commerce Supplemental Application in late April or May of each year.
- All course admission requirements must be completed by May 1 to be eligible.
- For information regarding admission to the program, contact Rotman Commerce at rc.admissions@utoronto.ca

Minimum Course Grades and Minimum Grade Average

A limited number of spaces in Rotman Commerce are available to Arts & Science students who were not admitted to first year with the Admission Guarantee.

Minimum grades in each listed course, combined with a minimum grade average in required courses, is needed for entry. The following courses with the stated minimum grades are required:

- MGT100H1 (67%)/ RSM100H1 (67%)
- ECO101H1 (63%) and ECO102H1 (63%)
- MAT133Y1 (63%) / (MAT135H1 (60%) + MAT136H1 (60%)/ MAT137Y1 (55%)/ MAT157Y1 (55%)

Admission will be based on marks and the Rotman Commerce Supplemental Application. Admission to Rotman Commerce is competitive. Meeting the minimum academic requirements does not guarantee admission to the program. An average of at least 73% in the prerequisite courses is needed for admission consideration and preference will be given to students whose marks are the result of a single attempt in each course.

Notes:

- For Arts and Science students admitted to Rotman Commerce, MGT100H1 will be considered equivalent to RSM100H1.

Completion Requirements:

(15.5 credits)

First Year:

1. (ECO101H1, ECO102H1), RSM100H1/ MGT100H12. MAT133Y1/(MAT135H1, MAT136H1)/ MAT137Y1/
MAT157Y13. Students are strongly encouraged to take RSM219H1,
RSM230H1 and RSM250H1 in their first year of study4. Students are encouraged to take one course towards
the Breadth Requirement in their first year of study

Higher Years:

5. ECO204Y1/ ECO206Y1; ECO220Y1/ ECO227Y1/(
STA220H1, STA255H1)*/(STA237H1, STA238H1)/(
STA257H1, STA261H1)6. RSM219H1, RSM220H1, RSM221H1, RSM222H1,
RSM225H1, RSM230H1, RSM250H1, RSM260H1,
RSM270H17. RSM320H1, RSM321H1, RSM323H1, RSM324H1,
RSM326H1, RSM332H1, RSM333H1, RSM392H1

8. Any 0.5 credit in 300+ ECO

9. RSM420H1, RSM422H1, RSM424H1, RSM426H1

*The combination of (STA220H1, STA255H1) is considered equivalent to ECO220Y1 for the purposes of completing Rotman Commerce program requirements only. It is not considered equivalent by the Department of Economics. Therefore (STA220H1, STA255H1) will not count towards an ECO major nor will it count as a pre-requisite for 300+ level ECO courses where ECO220Y1 is required. Please consult the Rotman Commerce Program office if you are considering taking (STA220H1, STA255H1) to complete your requirements.

Notes:

- Students may enrol in only one Rotman Commerce Specialist.
- Students must take a minimum of 8.0 credits in RSM and 8.0 credits in non-RSM courses to complete their Specialist requirements. MGT100H1 is considered equivalent to RSM100H1 and counts as 0.5 credit in RSM courses towards this requirement.
- The CR/NCR option cannot be used for any program completion requirements, including focus requirements and the 8.0 RSM credit requirement. Students may request to use the CR/NCR option

for any RSM courses they take beyond their program requirements. Requests will be considered on a case-by-case basis and require the approval of the Director, Rotman Commerce. Students may contact the Rotman Commerce Program office to make a request.

Finance and Economics Specialist (BCom) - ASSPE2038

Rotman Commerce at the University of Toronto offers an innovative curriculum combining studies in management, economics, and the liberal arts for an enriched professional undergraduate experience. The program explores the role of commerce in modern society while developing skill and confidence in analysis, effective communication, and decision making. The Rotman Commerce program offers a Bachelor of Commerce (BCom) degree in three different specialist programs, Finance & Economics, Accounting, and Management.

All programs within the Bachelor of Commerce degree build on a common foundation of business and liberal arts courses. Rotman Commerce students specialize in one of three programs: Accounting, Finance and Economics, or Management. Each program combines courses in management and applied economics with a variety of advanced courses in the liberal arts and sciences. The balance assures graduates of a solid understanding of business and modern society along with a command of critical skills in decision-making and organizational leadership.

Rotman Commerce graduates frequently become economists, accountants, actuaries, financial analysts, marketing analysts, managers of firms and government, or proprietors of small businesses. Some Rotman Commerce students elect to undertake post-graduate studies in the form of further university education: law schools and MBA programs have been particularly favoured destinations of recent graduates.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

For students admitted to the Rotman Commerce admission category in Year 1:*Special Requirement*

- Students are admitted to Year 1 of the Faculty of Arts and Science in the Rotman Commerce admission category with an "admission

guarantee." Students admitted with the guarantee are invited to enroll in the program after first year, provided that the course and grade requirements below (i.e., Guaranteed Admission requirements) are met.

- Failure to meet any of these requirements, or failure to complete all the required courses within the calendar year (assuming full-time studies), will result in losing the admission guarantee.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- RSM100H1 (67%)
- ECO101H1 (63%) and ECO102H1 (63%)
- MAT133Y1 (63%)/ (MAT135H1 (60%), MAT136H1 (60%))/ MAT137Y1 (55%)/ MAT157Y1 (55%)

Notes:

- Students may repeat any of the required courses once, in order to attain the requisite mark. The repeated course(s) must be completed within the calendar year (as per the terms of the "guarantee"); as such, the repeated course(s) must be taken during either the Winter or Summer Session of first-year (i.e. a student may not extend the terms of their guarantee in order to attain the minimum marks).
- Note that none of the required courses may be completed using the CR/NCR option.

For students NOT admitted to the Year 1 Rotman Commerce admission category:

Special Requirement

- Students must complete the Rotman Commerce Supplemental Application in late April or May of each year.
- All course admission requirements must be completed by May 1 to be eligible.
- For information regarding admission to the program, contact Rotman Commerce at rc.admissions@utoronto.ca

Minimum Course Grades and Minimum Grade Average

A limited number of spaces in Rotman Commerce are available to Arts & Science students who were not admitted to first year with the Admission Guarantee.

Minimum grades in each listed course, combined with a minimum grade average in required courses, is needed for entry. The following courses with the stated minimum grades are required:

- MGT100H1 (67%)/ RSM100H1 (67%)

- ECO101H1 (63%) and ECO102H1 (63%)
- MAT133Y1 (63%)/ (MAT135H1 (60%), MAT136H1 (60%))/ MAT137Y1 (55%)/ MAT157Y1 (55%)

Admission will be based on marks and the Rotman Commerce Supplemental Application. Admission to Rotman Commerce is competitive. Meeting the minimum academic requirements does not guarantee admission to the program. An average of at least 73% in the prerequisite courses is needed for admission consideration and preference will be given to students whose marks are the result of a single attempt in each course.

Notes:

- For Arts and Science students admitted to Rotman Commerce, MGT100H1 will be considered equivalent to RSM100H1.

Completion Requirements:

(15.0 credits)

First Year:

1. (ECO101H1, ECO102H1), RSM100H1/ MGT100H1

2. MAT133Y1/(MAT135H1, MAT136H1)/ MAT137Y1/
MAT157Y1

3. Students are strongly encouraged to take RSM219H1, RSM230H1 and RSM250H1 in their first year of study

4. Students are encouraged to take one course towards the Breadth Requirement in their first year of study.

Higher Years:

5. ECO204Y1/ ECO206Y1; ECO208Y1/ ECO209Y1;
ECO220Y1/ ECO227Y1/(STA220H1, STA255H1)*/(
STA237H1, STA238H1)/(STA257H1, STA261H1)

6. RSM219H1, RSM222H1, RSM230H1, RSM250H1,
RSM260H1, RSM270H1

7. RSM336H1, RSM332H1, RSM333H1, RSM392H1

8. Any 2.5 credits in 300+ ECO

9. 2.0 credits from: RSM430H1, RSM432H1, RSM433H1,
RSM434H1, RSM435H1, RSM436H1, RSM437H1,
RSM438H1, RSM439H1, or any 400-level finance-themed
RSM special topics course as determined by the Director
of Rotman Commerce.

*The combination of (STA220H1, STA255H1) is considered equivalent to ECO220Y1 for the purposes of completing Rotman Commerce program requirements only. It is not considered equivalent by the department of Economics. Therefore (STA220H1, STA255H1) will not count towards an ECO major nor will it count as a pre-requisite for 300+ level ECO courses where ECO220Y1 is required. Please consult the Rotman Commerce Program office if you are considering taking (STA220H1, STA255H1) to complete your requirements.

Notes:

- Students may enrol in only one Rotman Commerce Specialist.
- Students must take a minimum of 8.0 credits in RSM and 8.0 credits in non-RSM courses. MGT100H1 is considered equivalent to RSM100H1 and counts as 0.5 credit in RSM courses towards this requirement.
- The CR/NCR option cannot be used for any program completion requirements, including focus requirements and the 8.0 RSM credit requirement. Students may request to use the CR/NCR option for any RSM courses they take beyond their program requirements. Requests will be considered on a case-by-case basis and require the approval of the Director, Rotman Commerce. Students may contact the Rotman Commerce Program office to make a request.

Management Specialist (BCom) - ASSPE2431

Rotman Commerce at the University of Toronto offers an innovative curriculum combining studies in management, economics, and the liberal arts for an enriched professional undergraduate experience. The program explores the role of commerce in modern society while developing skill and confidence in analysis, effective communication, and decision making. The Rotman Commerce program offers a Bachelor of Commerce (BCom) degree in three different specialist programs, Finance & Economics, Accounting, and Management.

All programs within the Bachelor of Commerce degree build on a common foundation of business and liberal arts courses. Rotman Commerce students specialize in one of three programs: Accounting, Finance and Economics, or Management. Each program combines courses in management and applied economics with a variety of advanced courses in the liberal arts and sciences. The balance assures graduates of a solid understanding of business and modern society along with a command of critical skills in decision-making and organizational leadership.

Rotman Commerce graduates frequently become economists, accountants, actuaries, financial analysts,

marketing analysts, managers of firms and government, or proprietors of small businesses. Some Rotman Commerce students elect to undertake post-graduate studies in the form of further university education: law schools and MBA programs have been particularly favoured destinations of recent graduates.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

For students admitted to the Rotman Commerce admission category in Year 1:

Special Requirement

- Students are admitted to Year 1 of the Faculty of Arts and Science in the Rotman Commerce admission category with an "admission guarantee." Students admitted with the guarantee are invited to enroll in the program after first year, provided that the course and grade requirements below (i.e., Guaranteed Admission requirements) are met.
- Failure to meet any of these requirements, or failure to complete all the required courses within the calendar year (assuming full-time studies), will result in losing the admission guarantee.

Completed courses (with minimum grades)

The following courses with the stated minimum grades are required:

- RSM100H1 (67%)
- ECO101H1 (63%) and ECO102H1 (63%)
- MAT133Y1 (63%)/ (MAT135H1 (60%), MAT136H1 (60%)/ MAT137Y1 (55%)/ MAT157Y1 (55%)

Notes:

- Students may repeat any of the required courses once, in order to attain the requisite mark. The repeated course(s) must be completed within the calendar year (as per the terms of the "guarantee"); as such, the repeated course(s) must be taken during either the Winter or Summer Session of first-year (i.e. a student may not extend the terms of their guarantee in order to attain the minimum marks).
- Note that none of the required courses may be completed using the CR/NCR option.

For students NOT admitted to the Year 1 Rotman Commerce admission category:

Special Requirement

- Students must complete the Rotman Commerce Supplemental Application in late April or May of each year.
- All course admission requirements must be completed by May 1 to be eligible.
- For information regarding admission to the program, contact Rotman Commerce at rc.admissions@utoronto.ca

Minimum Course Grades and Minimum Grade Average

A limited number of spaces in Rotman Commerce are available to Arts & Science students who were not admitted to first year with the Admission Guarantee.

Minimum grades in each listed course, combined with a minimum grade average in required courses, is needed for entry. The following courses with the stated minimum grades are required:

- [MGT100H1](#) (67%)/ [RSM100H1](#) (67%)
- [ECO101H1](#) (63%) and [ECO102H1](#) (63%)
- [MAT133Y1](#) (63%)/ ([MAT135H1](#) (60%), [MAT136H1](#) (60%))/ [MAT137Y1](#) (55%)/ [MAT157Y1](#) (55%)

Admission will be based on marks and the Rotman Commerce Supplemental Application. Admission to Rotman Commerce is competitive. Meeting the minimum academic requirements does not guarantee admission to the program. An average of at least 73% in the prerequisite courses is needed for admission consideration and preference will be given to students whose marks are the result of a single attempt in each course.

Notes:

- For Arts and Science students admitted to Rotman Commerce, [MGT100H1](#) will be considered equivalent to [RSM100H1](#).

Completion Requirements:

(12.5 credits)

First Year:

1. ([ECO101H1](#), [ECO102H1](#)), [RSM100H1](#)/ [MGT100H1](#)

2. [MAT133Y1](#)/([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/
[MAT157Y1](#)

3. Students are strongly encouraged to take [RSM219H1](#), [RSM230H1](#) and [RSM250H1](#) in their first year of study

4. Students are encouraged to take one course towards the Breadth Requirement in their first year of study

Higher Years:

5. [ECO204Y1](#)/ [ECO206Y1](#); [ECO220Y1](#)/ [ECO227Y1](#)/(
[STA220H1](#), [STA255H1](#))*/([STA237H1](#), [STA238H1](#))/(
[STA257H1](#), [STA261H1](#))

6. [RSM219H1](#), [RSM222H1](#), [RSM230H1](#), [RSM250H1](#),
[RSM260H1](#), [RSM270H1](#)

7. [RSM332H1](#), [RSM333H1](#), [RSM392H1](#)

8. Any 1.0 credit in 300+ ECO

9. 2.5 credits in RSM courses at the 300+-level, with at least 1.0 credit at the 400-level, and at least 0.5 credit must be related to International Business, selected from [RSM437H1](#), [RSM462H1](#), [RSM480H1](#), [RSM490H1](#), [RSM491H1](#), RSM Summer Abroad courses, and special topics courses as determined by the program office.

*The combination of ([STA220H1](#), [STA255H1](#)) is considered equivalent to [ECO220Y1](#) for the purposes of completing Rotman Commerce program requirements only. It is not considered equivalent by the department of Economics. Therefore ([STA220H1](#), [STA255H1](#)) will not count towards an ECO major nor will it count as a pre-requisite for 300 + level ECO courses where [ECO220Y1](#) is required. Please consult the Rotman Commerce Program office if you are considering taking ([STA220H1](#), [STA255H1](#)) to complete your requirements.

Notes:

- Students may enrol in only one Rotman Commerce Specialist.
- Students must take a minimum of 8.0 credits in RSM and 8.0 credits in non-RSM courses. [MGT100H1](#) is considered equivalent to [RSM100H1](#) and counts as 0.5 credit in RSM courses towards this requirement.
- The CR/NCR option cannot be used for any program completion requirements, including focus requirements and the 8.0 RSM credit requirement. Students may request to use the CR/NCR option for any RSM courses they take beyond their program requirements. Requests will be considered on a case-by-case basis and require the approval of the Director, Rotman Commerce. Students may contact the Rotman Commerce Program office to make a request.

Focus in Finance - ASFOC2431B

Enrolment Requirements:

Enrolment in the Management Specialist Program (ASSPE2431).

Completion Requirements:

This Focus requires the completion of 2.5 credits.

1. Complete 1.0 credit from the following courses:
RSM336H1, RSM433H1, RSM435H1
2. Complete 1.5 credits from the remaining course in requirement 1 and the following courses:
RSM329H1, RSM338H1, RSM429H1,
RSM430H1, RSM432H1, RSM434H1,
RSM435H1, RSM436H1, RSM437H1,
RSM438H1, RSM439H1 and any finance-themed RSM special topics and RSM Summer Abroad courses as determined by the Director of Rotman Commerce.

Alternative courses may be substituted with the prior approval of the Director, Rotman Commerce. Contact the Rotman Commerce Program office for more information.

Focus in Financial Statement Analysis - ASFOC2431E

Enrolment Requirements:

Enrolment in the Management Specialist Program (ASSPE2431).

Completion Requirements:

This Focus requires the completion of 3.0 credits.

1. Complete 1.0 credit of required courses:
RSM220H1/ RSM329H1, RSM429H1
2. Complete 2.0 credits from the following courses:
RSM221H1, RSM323H1, RSM324H1,
RSM326H1, RSM327H1, RSM328H1,
RSM420H1, RSM425H1, RSM428H1,
RSM470H1 and any accounting-themed RSM special topics and RSM Summer Abroad courses as determined by the Director of Rotman Commerce.

Alternative courses may be substituted with the prior approval of the Director, Rotman Commerce. Contact the Rotman Commerce Program office for more information.

Focus in International Business (UofT Global Scholar) - ASFOC2431F

Enrolment Requirements:

Enrolment in the Management Specialist Program (ASSPE2431).

Completion Requirements:

This Focus requires the completion of 2.5 credits.

1. Complete 1.5 credit from: RSM437H1,
RSM480H1, RSM490H1, ECO324H1,
ECO364H1, ECO365H1, ECO419H1
2. Complete 1.0 credit from either the remaining courses in requirement 1 or the following:
HIS267H1, RSM370H1, RSM461H1, RSM462H1,
RSM470H1, RSM481H1, RSM491H1,
ECO341H1, ECO342H1, ECO362H1,
ECO403H1, ECO406H1, ECO435H1,
ECO451H1, any RSM Summer Abroad course, any language course at the 200+ level and any international business-themed RSM special topics courses as determined by the Director of Rotman Commerce. Transfer credits from participation in an international exchange may count up to 1.0 credit towards this requirement.

Alternative courses may be substituted with the prior approval of the Director, Rotman Commerce. Contact the Rotman Commerce Program office for more information.

Focus in Leadership in Organizations - ASFOC2431C

Enrolment Requirements:

Enrolment in the Management Specialist Program (ASSPE2431).

Completion Requirements:

This Focus requires the completion of 2.5 credits.

1. Complete 1.0 credit from the following courses:
RSM361H1, RSM461H1, RSM462H1,
RSM463H1, RSM464H1, RSM465H1
2. Complete 1.5 credits from remaining courses in requirement 1, or the following courses:
RSM340H1, RSM341H1/ RSM470H1,
RSM362H1, RSM405H1, RSM466H1,
RSM496H1, and any leadership in organizations-themed RSM special topics and RSM Summer Abroad courses as determined by the Director of Rotman Commerce.

Alternative courses may be substituted with the prior approval of the Director, Rotman Commerce. Contact the Rotman Commerce Program office for more information.

Focus in Marketing - ASFOC2431A

Enrolment Requirements:

Enrolment in the Management Specialist Program (ASSPE2431).

Completion Requirements:

This Focus requires completion of 2.5 credits.

1. Complete 1.5 credits of the following required courses: [RSM350H1](#), [RSM352H1](#), [RSM353H1](#)
2. Complete 1.0 credit from the following: [RSM351H1](#) (formerly offered as a special topics course under [RSM410H1](#)), [RSM355H1](#), [RSM358H1](#), [RSM450H1](#), [RSM454H1](#), [RSM455H1](#), [RSM456H1](#), [RSM457H1](#), [RSM458H1](#), [RSM459H1](#), [RSM470H1](#) and any marketing-themed RSM special topics and RSM Summer Abroad courses as determined by the Director of Rotman Commerce.

Alternative courses may be substituted with the prior approval of the Director, Rotman Commerce. Contact the Rotman Commerce Program office for more information.

Focus in Strategy and Innovation - ASFOC2431D

Enrolment Requirements:

Enrolment in the Management Specialist Program (ASSPE2431).

Completion Requirements:

This Focus requires the completion of 2.5 credits.

1. Complete 1.0 credit from the following courses: [RSM393H1](#), [RSM459H1](#), [RSM482H1](#), [RSM490H1](#), [RSM493H1](#), [RSM498Y1](#) (Special Topics in Management: Creative Destruction Lab)
2. Complete 1.5 credit from remaining courses in requirement 1, or the following courses: [HIS267H1](#), [RSM340H1](#), [RSM341H1](#), [RSM470H1](#), [RSM370H1](#), [RSM394H1](#), [RSM438H1](#), [RSM439H1](#), [RSM464H1](#), [RSM491H1](#), [RSM494H1](#), [RSM495H1](#), [RSM496H1](#), [RSM497H1](#) (formerly offered as a special topics course under [RSM410H1](#)) and any strategy, innovation and/or entrepreneurship-themed RSM special topics and RSM Summer Abroad courses as determined by the Director of Rotman Commerce.

Alternative courses may be substituted with the prior approval of the Director, Rotman Commerce. Contact the Rotman Commerce Program office for more information.

Focus in Data Science in Business

This is a focus in data science in business that can be taken as part of any of the 3 specialists (Management, Accounting, and Finance & Economics) in the Rotman Commerce program. It requires taking 1.0 credit of required courses in programming and data analytics tools and then allows students to choose 1.5 credits of elective courses applying these tools to various areas in management and economics.

Enrolment Requirements:

Enrolment in one of the following Bachelor of Commerce Specialist programs is required:

- Management Specialist (Focus ASFOC2431G)
- Accounting Specialist (Focus ASFOC2676A)
- Finance & Economics Specialist (Focus ASFOC2038A)

Completion Requirements:

This focus requires the completion of 2.5 credits.

1. 0.5 credit in Programming: [CSC108H1](#)/[CSC148H1](#)
2. 0.5 credit in Data Science Tools: [RSM338H1](#)/[RSM358H1](#)
3. 1.5 credits from the following courses: [ECO225H1](#), [ECO372H1](#), [ECO374H1](#), [ECO375H1](#), [ECO464H1](#), [ECO475H1](#), [GGR274H1](#), [RSM326H1](#), [RSM351H1](#) (formerly offered as a special topics course under [RSM311H1](#)), [RSM371H1](#), [RSM384H1](#), [RSM456H1](#), [RSM470H1](#), [RSM483H1](#) and any data science-themed RSM special topics course and RSM Summer Abroad course as determined by the Director of Rotman Commerce.

Alternative courses may be substituted with the prior approval of the Director, Rotman Commerce. Contact the Rotman Commerce Program office for more information.

Focus in Managing in Diverse Economies (UofT Global Scholar)

This focus in Managing in Diverse Economies can be taken as part of any of the 3 specialists (Management, Accounting, and Finance & Economics) in the Rotman Commerce program. It requires taking 1.5 credits from the list of required courses (both foundational and capstone) and then allows students to choose 1.0 credit of complementary electives to support the region(s) of study

of the capstone. The Managing in Diverse Economies focus offers undergraduate business students in Rotman Commerce an opportunity to learn about business paradigms beyond the western business ecosystem.

Enrolment Requirements:

Enrolment in one of the following Bachelor of Commerce Specialist programs is required:

- Management Specialist - ASSPE2431 (Focus Code: ASFOC2431H)
- Accounting Specialist - ASSPE2676 (Focus Code: ASFOC2676B)
- Finance & Economics Specialist - ASSPE2038 (Focus Code: ASFOC2038B)

Completion Requirements:

This focus requires the completion of 2.5 credits, including both required and elective courses.

Required Courses (1.5 credits):

1. 0.5 credit in Foundational Knowledge of Economics or Political Economy of Inequality and Development

- ECO324H1/ ECO367H1/ ECO403H1/ POL201H1/ POL223H1

2. 1.0 credit Capstone course in Managing in Diverse Economies

- RSM468Y1

Elective courses* (1.0 credit):

Rotman Commerce Courses

RSM100H1 - Introduction to Management

Previous Course Number: RSM100Y1
Hours: 24L

Introduction to management and its subdisciplines. Themes include business in a Canadian context, the nature of corporations, corporate governance, organizational behavior, operations, and strategy. Enrolment limited to students entering the University with an expressed interest in studying at Rotman Commerce.

Exclusion: MGT100H1, RSM100Y1

Breadth Requirements: Society and its Institutions (3)

3. Choose 1.0 credit from the following courses:

- AFR250Y1, AFR352H1, AFR353H1, AFR354H1, CAR120Y1, CAR220H1, CAR324H1, CAR328H1, CDN198H1, CDN335H1, CDN367H1, CDN385H1, ENG254H1, ENG270H1, ENG355Y1, ENG356H1, ENG367H1, ENG370H1, GGR326H1, GGR341H1, GGR428H1, GGR429H1, GGR430H1, HIS230H1, HIS231H1, HIS265Y1, HIS267H1, HIS293H1, HIS295Y1, HIS297Y1, HIS342H1, HIS359H1, HIS366H1, HIS369H1, HIS383Y1, INS200H1, POL301H1, POL305H1, POL309H1, POL325H1, POL417H1, POL445H1, POL447H1, POL469H1, RLG353H1, RLG365H1

** Rotman Commerce students must meet any pre-requisites/enrolment controls in order to take the above elective courses. There may be limited space in some courses and, as a result, there may be priority enrolment for students based on program enrolment.*

Notes:

- Rotman Commerce students are encouraged by the various departments offering elective courses to engage in more in-depth study beyond what is required for the focus.
- Rotman Commerce students who have completed or are completing course work in public health, history, or other domains that dovetail with the region(s) of the capstone are welcome to request consideration for alternate courses to be accepted towards the "elective" requirements of this focus.

MGT100H1 - Fundamentals of Management

Previous Course Number: RSM100Y1
Hours: 24L

Introduction to management and its subdisciplines. Themes include business in a Canadian context, the nature of corporations, corporate governance, organizational behavior, operations, and strategy. Not open to Rotman Commerce students.

Exclusion: RSM100H1, RSM100Y1

Breadth Requirements: Society and its Institutions (3)

RSM210H1 - Special Topics in Management

Hours: 24L

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 4.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM211H1 - Special Topics in Management

Hours: 24L

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 4.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM212H1 - Special Topics in Management

Hours: 24L

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 4.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM213H1 - Special Topics in Management

Hours: 24L

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman

Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 4.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM219H1 - Introduction to Financial Accounting

Hours: 24L/12T

Basic introduction to financial reporting and analysis. Emphasis is on decision-making and interpretation of financial statements and how they can be used to plan a firm's overall business activities through the use of real-world companies. Coverage includes the use of accounting information to prepare a basic set of financial statements. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Note: This course is normally taken in first year.

Breadth Requirements: Society and its Institutions (3)

RSM220H1 - Intermediate Financial Accounting I

Hours: 24L/12T

Foundations of financial reporting and analysis in Canada. Financial accounting topics are covered at an intermediate level, including both conceptual and technical aspects. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM219H1; Completion of the Rotman Commerce Guaranteed Admission requirements.

Breadth Requirements: Society and its Institutions (3)

RSM221H1 - Intermediate Financial Accounting II

Hours: 24L/12T

Covers topics such as income statement and balance sheet topics with an emphasis on quality of earnings. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM220H1

Breadth Requirements: Society and its Institutions (3)

RSM222H1 - Management Accounting I

Hours: 24L/12T

Covers the conceptual and analytical foundations of management accounting and the applications of cost accounting information. Costing and control concepts are analyzed to equip students with tools for establishing costing systems, making business decisions, and evaluating management performance. Materials are designed to help students understand strategic cost management principles. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM219H1; Completion of the Rotman Commerce Guaranteed Admission requirements.
Breadth Requirements: Society and its Institutions (3)

RSM225H1 - Legal Environment of Business I

Hours: 24L

Introduces students to the Canadian legal system as it relates to business entities. The course focuses on general legal concepts, including sources of law and the court structure; business entity law (including corporate law), commercial law (contract) as well as the law of torts. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of the Rotman Commerce Guaranteed Admission requirements.
Breadth Requirements: Society and its Institutions (3)

RSM230H1 - Financial Markets

Hours: 24L

Introduction to Canadian and international financial markets. This course provides an overview of the major financial institutions, financial markets, financial securities, and an introduction to valuation and trading of securities. Securities discussed include stocks and bonds, as well as some content on derivatives. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Note: This course is normally taken in first year.

Exclusion: MGT230H1
Breadth Requirements: Society and its Institutions (3)

RSM250H1 - Principles of Marketing

Hours: 24L

Students receive an introduction to the basic concepts, theories, and methods of contemporary marketing. The course offers a comprehensive framework to develop successful marketing efforts and allows students to create a marketing plan. Specific topics examined: market research, consumer behaviour, segmentation, product policy, pricing, distribution, communications, sales, and direct marketing. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Note: This course is normally taken in first year.

Exclusion: MGT250H1
Breadth Requirements: Thought, Belief and Behaviour (2)

RSM260H1 - Organizational Behaviour

Hours: 24L

Theoretical ideas and practical applications concerning the behaviour of individuals and groups in organizations. We explore relevant topics for management: motivation, personality, perception, decision-making, groups, and negotiation. A fee of \$10 will be charged to your student account for a simulation handbook. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of the Rotman Commerce Guaranteed Admission requirements.
Exclusion: IRE260H1, PSY332H1, WDW260H1
Breadth Requirements: Thought, Belief and Behaviour (2)

RSM270H1 - Operations Management

Hours: 24L

Introduction to the management of business processes that convert inputs (labor, material, equipment) into outputs (goods and services) for internal and external markets. Topics include aggregate planning, inventory processes, supply chain management and service operations management. Presents modern quantitative and computing tools necessary for in-depth operational design and analysis. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of the Rotman Commerce Guaranteed Admission requirements.
Breadth Requirements: The Physical and Mathematical Universes (5)

Not eligible for CR/NCR option. Contact Rotman Commerce for details.

MGT295Y0 - Special Topics

Hours: 48L

The area of concentration and location depend on the instructor teaching the course. (Offered only during the Summer Session through the Summer Abroad Program). Contact Rotman Commerce for details.

RSM295Y0 - Special Topics

Hours: 24L

The areas of concentration depend on the instructor teaching the course. (Offered only during the summer session through the Summer Abroad Program). Not eligible for CR/NCR option. Contact Rotman Commerce for details.

RSM296Y0 - Special Topics

Hours: 24L

The areas of concentration depend on the instructor teaching the course. (Offered only during the Summer Session through the Summer Abroad Program). Not eligible for CR/NCR option. Contact Rotman Commerce for details.

MGT296Y0 - Special Topics

Hours: 48L

The area of concentration and location depend on the instructor teaching the course. (Offered only during the Summer Session through the Summer Abroad Program). Contact Rotman Commerce for details.

RSM297Y0 - Special Topics

Hours: 24L

The areas of concentration and location depend on the instructor teaching the course. (Offered only during the Summer Session through the Summer Abroad Program).

MGT297Y0 - Special Topics

Hours: 48L

The area of concentration and location depend on the instructor teaching the course. (Offered only during the Summer Session through the Summer Abroad Program). Contact Rotman Commerce for details.

RSM301H1 - Independent Study

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Rotman Commerce and the supervising faculty member before enrolling. Enrolment is restricted to Rotman Commerce students. Consult the Rotman Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: 9.0 credits, Cumulative GPA of at least 2.70

MGT301H1 - Independent Study

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Rotman Commerce and the supervising faculty member before enrolling. Enrolment is restricted to students not in a Rotman Commerce program. Consult the Rotman Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: 9.0 credits, Cumulative GPA of at least 2.70

RSM302H1 - Independent Study

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Rotman Commerce and the supervising faculty member before enrolling. Enrolment is restricted to Rotman Commerce students. Consult the Rotman Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: 9.0 credits, Cumulative GPA of at least 2.70

MGT302H1 - Independent Study

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Rotman Commerce and the supervising faculty member before enrolling. Enrolment is restricted to students not in a Rotman Commerce program. Consult the Rotman Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: 9.0 credits, Cumulative GPA of at least 2.70

RSM303Y1 - Independent Study

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Rotman Commerce and the supervising faculty member before enrolling. Enrolment is restricted to Rotman Commerce students. Consult the Rotman Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: 9.0 credits, Cumulative GPA of at least 2.70

MGT303Y1 - Independent Study

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Rotman Commerce and the supervising faculty member before enrolling. Enrolment is restricted to students not in a Rotman Commerce program. Consult the Rotman Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: 9.0 credits, Cumulative GPA of at least 2.70

RSM304Y1 - Independent Study

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Rotman Commerce and the supervising faculty member before enrolling. Enrolment is restricted to Rotman Commerce students. Consult the Rotman Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: 9.0 credits, Cumulative GPA of at least 2.70

RSM310H1 - Special Topics in Management

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman

Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 9.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM311H1 - Special Topics in Management

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 9.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM312H1 - Special Topics in Management

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 9.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM313H1 - Special Topics in Management

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 9.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM314H1 - Special Topics in Management

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman

Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 9.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM315H1 - Special Topics in Management

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 9.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM316H1 - Special Topics in Management

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 9.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM317H1 - Special Topics in Management

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 9.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM318H1 - Special Topics in Management

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman

Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 9.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM319H1 - Special Topics in Management

Topics and Issues in Management. Content in any given year will depend on the instructor. See the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description.

Prerequisite: Completion of 9.0 credits. Further prerequisites may vary from year to year. Consult the course description on the Rotman Commerce website for details.

RSM320H1 - Intermediate Financial Accounting III

Hours: 24L

Covers broader areas in financial reporting, drawing upon regulatory documents and corporate communications. Topics include corporate reporting quality, employee future benefits, employee compensation disclosure and analysis, income tax accounting, narrative reporting. Emphasis on the context of financial reporting including an organization's 'tone at the top' and the adoption of international standards. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: [RSM221H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

RSM321H1 - Advanced Financial Accounting Topics

Hours: 24L/12T

This course covers accounting issues and practices relating to long-term investments, consolidations, foreign transactions and foreign investments. International accounting issues are also introduced. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: [RSM320H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

RSM323H1 - Auditing I

Hours: 24L/12T

This course introduces students to the concepts and theory underlying audit practice. Practical examples are used to help students develop skills in exercising professional judgment. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM221H1

Breadth Requirements: The Physical and Mathematical Universes (5)

RSM324H1 - Canadian Income Taxation I

Hours: 24L/12T

This course emphasises the fundamentals of the Canadian tax system. Included are topics, such as, residence of corporations and individuals, effective tax rates for corporations and individuals, business income, integration, capital gains and losses, to name a few. A key objective of this course is to assist students in learning to read, interpret and apply provisions of the Income Tax Act to practical problems and cases. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM220H1

Breadth Requirements: Society and its Institutions (3)

RSM325H1 - Legal Environment of Business II

Hours: 24L

This course canvasses several areas of law that impact a business entity. Topics dealt with include agency law, employment law, the Personal Property Security Act and the rights of the secured creditor, bankruptcy law, relevant consumer protection legislation, intellectual property and other specific legal topics. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM225H1

Breadth Requirements: Society and its Institutions (3)

RSM326H1 - Data Analytics with Financial Accounting Information

Previous Course Number: RSM311H1 - Analytical Insights using Financial Data

Hours: 24L/12T

Students will learn how to better understand and analyze accounting information through empirical analysis. The course will teach students how to extract information from rich accounting and finance datasets to help provide insights in a wide range of corporate business problems in both equity and debt markets. Different modeling approaches are used to analyze accounting data and disclosure information. Not eligible for CR/NCR option.

Prerequisite: RSM219H1, ECO220Y1/ ECO227Y1/(STA220H1, STA255H1)/(STA237H1, STA238H1)/(STA257H1, STA261H1)

Exclusion: RSM311H1 (Special Topics in Management: Analytical Insights using Financial Data), offered in Fall 2019

Breadth Requirements: Society and its Institutions (3)

RSM327H1 - Business Information Systems

Hours: 24L/12T

This course helps students use, develop, and manage computer-based systems. The first half covers the basic features of hardware, software, communications, and databases. The second half examines how users, businesses, the economy, and society are affected by the development of this technology. No previous background in computing is assumed. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Exclusion: CSC340H1

Breadth Requirements: Society and its Institutions (3)

RSM328H1 - Financial Distress and Insolvency

Hours: 24L

This course explores the reasons for financial distress and introduces options for managers, creditors, lenders, and directors of firms in financial distress. The use of financial ratios to predict solvency problems is covered as well as strategies both for restructuring companies having financial difficulties and for negotiation with creditors. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM219H1, RSM222H1

Breadth Requirements: Society and its Institutions (3)

RSM329H1 - Accounting for Finance Professionals

Previous Course Number: RSM212H1

Hours: 24L/12T

Finance professionals often rely heavily on accounting information obtained from financial statements and other sources of financial reporting. This course builds on the basic foundations provided in RSM219H1, Introduction to Financial Accounting, and provides an intermediate-level discussion of key concepts required to competently read, analyze, interpret, and evaluate financial statement information. Following topics are discussed from the perspectives of International Financial Reporting Standards (IFRS) and U.S. Generally Accepted Accounting Principles (US GAAP): revenue recognition, cash flows, inventories, long-lived assets, non-current liabilities, income taxes, and financial statement analysis. Not eligible for CR/NCR option.

Prerequisite: RSM219H1

Exclusion: RSM212H1 (Special Topics in Management: Accounting for Finance Professionals), offered in Winter 2018 and Winter 2019

Recommended Preparation: RSM332H1 and RSM333H1

Breadth Requirements: The Physical and Mathematical Universes (5)

RSM332H1 - Capital Market Theory

Hours: 24L/24T

An introduction to capital market theory explaining how financial securities are priced. Topics covered include the time and risk value of money, the use of discounted cash flow techniques, efficient set theory, asset pricing and market efficiency. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM230H1

Corequisite: ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/(STA220H1, STA255H1)/(STA237H1, STA238H1)/(STA257H1, STA261H1)

Exclusion: ACT349H1, ECO358H1

Breadth Requirements: Society and its Institutions (3)

RSM333H1 - Corporate Finance

Hours: 24L/12T

Application and development of the ideas in RSM332H1 to corporate finance problems such as determining the weighted average cost of capital, project evaluation, corporate financing decisions, working capital management and initial public offerings. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM219H1, RSM332H1

Exclusion: ACT349H1, ECO359H1

Breadth Requirements: Society and its Institutions (3)

RSM336H1 - Investments

Previous Course Number: RSM330H1

Hours: 24L

This course provides an introduction to financial theories and analytical tools for making investment decisions and for understanding how prices are determined for stocks and bonds. The course covers a broad range of topics including asset allocation, technical analysis, fundamental analysis, anomalies, and bond portfolio management. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM230H1, RSM332H1

Corequisite: ECO220Y1/ ECO227Y1/(STA220H1, STA255H1)/(STA237H1, STA238H1)/(STA257H1, STA261H1)

Exclusion: ACT349H1, RSM330H1

Breadth Requirements: Society and its Institutions (3)

RSM338H1 - Applications of Machine Learning in Finance

Hours: 24L/12T

This course provides an overview of the basic tools in data analysis and machine learning, with emphasis on their applications in finance. Data analysis and machine learning play an important role in FinTech. Individual investors and financial institutions who are able to leverage these new tools and technology will have a significant advantage. This course discusses these new opportunities and challenges. It seeks to equip students with these highly coveted skills in the market.

Prerequisite: ECO220Y1/ ECO227Y1/(STA220H1, STA255H1)/(STA237H1, STA238H1)/(STA257H1, STA261H1); CSC108H1/ CSC148H1

Exclusion: RSM358H1; RSM316H1 (Special Topics in Management: Machine Learning), offered in Winter 2020/Fall 2020/Winter 2021

Breadth Requirements: The Physical and Mathematical Universes (5)

RSM340H1 - The Opposable Mind: Approaches to Integrative Thinking

Previous Course Number: RSM310H1

Hours: 24L

Beginning with an exploration of integrative thinking and the tools associated with it, this course asks students to apply integrative thinking to complex problems that span traditional disciplines. Throughout the course, students will learn practical tools aimed at helping integrate between models, build new models and create new value. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits.

Exclusion: RSM310H1 (Special Topics in Management: The Opposable Mind: Approaches to Integrative Thinking), offered in Winter 2011/Winter 2012/Winter 2013

Breadth Requirements: Thought, Belief and Behaviour (2)

RSM341H1 - Model-Based Decision Making

Hours: 24L

This course aims to introduce logically disciplined approaches to decision making under uncertainty. Managers are continually barraged with information that may be unreliable. They must choose courses of action in the face of many uncertainties. How can we define and assess the "optimality" of their decisions in a consistent manner? By building upon the answers to these questions, the course will consider the problem of rational choice when the outcome is determined by the actions of, and interactions between, multiple individuals. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits, ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/(STA220H1, STA255H1)/(STA237H1, STA238H1)/(STA257H1, STA261H1)

Breadth Requirements: Thought, Belief and Behaviour (2)

RSM350H1 - Marketing Management

Previous Course Number: RSM251H1

Hours: 24L

This course employs the case method of instruction to develop the skills required of marketing managers. Students will learn to diagnose marketing problems and develop, present, and defend their recommendations.

They will also gain experience analyzing marketing situations, identifying market opportunities, developing marketing strategies, and designing the marketing mix. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM250H1

Exclusion: RSM251H1

Breadth Requirements: Thought, Belief and Behaviour (2)

RSM351H1 - Data Based Decision Making

Hours: 12L/12T/3P

The goal of this course is to introduce students to key ideas about data-intensive business decision-making. Students will become familiar with the link between decisions and data. Students will see how decisions improve substantially when data is used to better understand business situations. The essential factor is to understand the link between decisions that are made and "expected outcomes". The strength and reliability of these links is based on probabilistic concepts (e.g. distributions, measures of variability and co-variability, standard errors and statistical hypothesis). In this course, students will have an opportunity to apply these concepts to facilitate robust data-driven decision-making. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM250H1

Exclusion: RSM311H1 (Special Topics in Management: *Data-based Decision Making*), offered in the Fall of 2021, 2022, and Winter 2024.

Breadth Requirements: Society and its Institutions (3)

RSM352H1 - Marketing Research

Hours: 24L

Marketing research is studied from the perspective of the marketing manager. The course focuses on the initiation, design, and interpretation of research as an aid to marketing decision making. Case studies and projects are used to provide students with some practical research experiences. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: ECO220Y1/ ECO227Y1/(STA220H1, STA255H1)/(STA237H1, STA238H1)/(STA257H1, STA261H1)

Corequisite: RSM251H1/ RSM350H1

Breadth Requirements: Society and its Institutions (3)

RSM353H1 - Consumer Behaviour

Hours: 24L

Formulating successful marketing strategies requires an understanding of consumers' cultures, motivations, cognitions, and emotions. Students will learn how to use theoretical perspectives from psychology, economics, anthropology, and other disciplines to generate predictions about consumers, interpret consumer reactions to marketing stimuli, and develop rigorous skills in marketing analysis. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Corequisite: RSM251H1/ RSM350H1

Breadth Requirements: Thought, Belief and Behaviour (2)

RSM355H1 - Managing Customer Value

Previous Course Number: RSM310H1 - Managing Customer Value
Hours: 24L

This course builds on the foundation developed in RSM250H1 (Principles of Marketing) in a competitive simulation environment. While RSM250H1 focuses on the fundamental marketing elements for operationalizing this basic philosophy - segmentation, targeting, positions and 3 of the 4 Ps, this course is designed to advance a participant's understanding of designing and implementing marketing strategies and explore the management of the 4th P (promotion) in greater depth. In particular, participants will make decisions about all 4 Ps simultaneously and manage the interactions between them. A fee of up to \$66 may be charged for simulation software licence. Not eligible for CR/NCR option.

Prerequisite: RSM250H1 and completion of 9.0 credits

Exclusion: RSM310H1 (*Special Topics in Management: Managing Customer Value*), offered in Winter 2019 and Winter 2020

Breadth Requirements: Society and its Institutions (3)

RSM358H1 - Foundations of AI for Management

Hours: 24L/12T

Artificial intelligence — the application of machine-learning techniques to prediction problems historically performed by humans — is transforming business and society. This course provides a hands-on introduction to the wide variety of algorithms used in applications of machine-learning. The technical topics will include linear and non-linear regression models, classification algorithms, and more recent machine-learning techniques rooted in

neuroscience like reinforcement learning and deep learning. Application topics will include predicting consumer choices, MLB salaries, and Super Mario Bros. There will be an emphasis on conceptual understanding, so that students can interpret the results of these techniques to support effective decision-making. The course will be complemented by many hands-on exercises using the R programming language.

Prerequisite: ECO220Y1/ ECO227Y1/(STA220H1, STA255H1)/(STA237H1, STA238H1)/(STA257H1, STA261H1), CSC108H1/ CSC148H1

Exclusion: RSM338H1, RSM313H1 (Special Topics in Management: Foundations of Artificial Intelligence for Management), offered in Fall 2020

Breadth Requirements: The Physical and Mathematical Universes (5)

RSM359H1 - Creative Thinking and Business Problem Solving

Previous Course Number: RSM452H1
Hours: 12L/12P

Creativity is the most effective competitive advantage. Creativity involves a process of crafting and turning new, imaginative ideas into reality. This interactive course will challenge you to develop your personal and professional creativity. Through a combination of lectures, inspirational speakers and immersive in-class activities, you will learn to see business problems and opportunities in new ways and develop solutions unseen and unimagined by others. The goal of this course is to provide a variety of principles, prompts and practices that focus on fostering each student's own creative thinking abilities and how to apply them in teams and as a business leader. Students will be introduced and practice a suite of creative thinking methods and creative problem-solving tools on real business innovation challenges.

Prerequisite: Completion of 9.0 credits including RSM250H1.

Exclusion: RSM452H1

Breadth Requirements: Creative and Cultural Representations (1)

Course Experience: University-Based Experience

RSM361H1 - Human Resource Management

Hours: 24L

Human resource management is studied from the perspective of the manager/practitioner. The course focuses on decisions about when and whom to hire, how much to pay, what training to offer, and how to evaluate employees. Class exercises and projects are used to

provide students with some practical experience with these topics. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM260H1

Breadth Requirements: Society and its Institutions (3)

RSM362H1 - Leading Across Differences

Hours: 24L

There is enormous buzz about leadership competencies that reflect the evolving nature of both the corporate culture as well as the disparate expectations of stakeholders. One leadership competency is the ability to navigate differences within the organization effectively. Through a series of thought provoking and experiential sessions, this course will make linkages between one's individual leadership stance and tools for leveraging differences for impact. There will be constant focus upon uncovering innovative frames around diversity and inclusion that directly impact organizational strategy across sectors. Thought leaders, executives and practitioners from various organizations will bring their insights to deepen the learning experience.

Prerequisite: 9.0 credits completed

Breadth Requirements: Thought, Belief and Behaviour (2)

RSM370H1 - Supply Chain Management

Hours: 24L

Globalization increasingly intertwines the Canadian and world economies. Understanding how firms can successfully link with worldwide suppliers and markets is central to growth. Supply chain management issues covered include: advanced inventory and production models; supply contracts; the bullwhip effect; vendor-managed inventories; distribution strategies; third-party logistics; product variety; current information technology. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits including RSM270H1.

Breadth Requirements: Society and its Institutions (3)

RSM371H1 - Data and Information Management for Business Analytics

Previous Course Number: RSM312H1

Hours: 24L

This course focuses on the fundamentals of data management for the purposes of producing information and supporting advanced techniques of business analytics. This applied learning course will expose the learner to a broad range of technical skills that are required to access, prepare and visualize data for advanced analysis. The course introduces the fundamental skills that form the foundation in the development of advanced business analytics.

Prerequisite: CSC108H1

Exclusion: RSM312H1 (Data and Information Management for Business Analytics), offered in Winter 2020, 2021, 2022, 2023

Recommended Preparation: Python for Business, e.g., <http://apps.rotman.utoronto.ca/RotmanEvents/EventDetails.aspx?eid=27258>

Breadth Requirements: Society and its Institutions (3)

RSM384H1 - Sports Analytics

Hours: 24L

This course applies concepts of analytic management and data analysis to the sports world. The class is intended to deepen the students' ability to apply econometric skills from ECO220Y1. Particular emphasis is given to player management, "on the field" decisions and giving the students the opportunity to do their own analysis while learning frontier techniques. The class will introduce students to some basics of coding and econometric analysis in R. No prior coding experience is required, but basic coding will be necessary and the course provides students with new or deepened skills in that area.

Prerequisite: ECO220Y1/ ECO227Y1/(STA220H1, STA255H1)/(STA237H1, STA238H1)/(STA257H1, STA261H1)

Exclusion: RSM314H1 (Special Topics in Management: Sports Analytics), offered in Winter 2019/Winter 2020/Winter 2021

Breadth Requirements: The Physical and Mathematical Universes (5)

RSM391H1 - Creative Destruction Lab – Introductory Course

Hours: 24L

This course is suitable for students interested in pursuing careers in strategy, innovation, entrepreneurship, entrepreneurial finance, new product development, and economic development policy. The course will introduce students to a framework for developing an entrepreneurial strategy. This involves the key choices of customer, competition, technology and identity as well as whether ventures pursue a control versus execution focus. The

course will also provide a discussion of intellectual property strategies for technology entrepreneurs.

As part of the preparation for the CDL Advanced course, this course will also introduce you to the business of artificial intelligence. You will explore what machine learning is, what its economic properties are, how it impacts on strategy, its risks and legal implications. As most ventures in the Toronto CDL have AI cores, this will be essential preparation for that as well as an introduction to AI in the real business world.

This course is a prerequisite for students wanting to apply for the Creative Destruction Lab (CDL) Advanced Course RSM2013Y/ RSM498Y1 where students will have the opportunity to work directly with a CDL venture. Interested students should familiarize themselves with the Creative Destruction Lab and its various activities prior to registering for this course. You can find more information from our website at www.creativedestructionlab.com.

Prerequisite: Completion of 9.0 credits

Exclusion: RSM319H1 (Special Topics in Management: Creative Destruction Lab Intro), offered in Winter 2020/Summer 2020/Fall 2020/Winter 2021

Breadth Requirements: Society and its Institutions (3)

RSM392H1 - Strategic Management

Hours: 24L

Introduces core ideas, concepts and models in the area of Strategic Management. Addresses the following questions: Why does firm performance vary across industries, and across firms within a given industry? What types of competitive strategies can managers pursue? When are different types of strategies more or less likely to be successful? Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits; RSM219H1; RSM222H1

Breadth Requirements: Society and its Institutions (3)

RSM393H1 - Strategic Case Analysis

Hours: 24L

This course provides students with the opportunity to hone the critical skills of effective presentation, decisiveness and business acumen with a focus on learning-by-doing. Students will analyze and recommend solutions to business problems and develop abilities to present and defend recommendations in an impactful and effective manner. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits; RSM392H1

Exclusion: RSM312H1 (Special Topics in Management: Case Analysis for Strategic Management), offered in Fall 2010/Fall 2011/Winter 2013

Breadth Requirements: Society and its Institutions (3)

RSM394H1 - Social Entrepreneurship

Previous Course Number: RSM318H1

Hours: 24L

In this course, students will learn how entrepreneurs create organizations that address social problems using innovative, sustainable approaches. Students will examine a variety of social venture forms and consider how such ventures can be evaluated, managed, and financed. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits

Exclusion: RSM318H1 (Special Topics in Management: Social Entrepreneurship), offered in Winter 2018; RSM318H1 (Special Topics in Management: Entrepreneurship for Social Ventures), offered in Winter 2015 and Winter 2016

Breadth Requirements: Thought, Belief and Behaviour (2)

MGT395Y0 - Special Topics

Hours: 48L

The area of concentration and location depend on the instructor teaching the course. (Offered only during the Summer Session through the Summer Abroad Program). Contact Rotman Commerce for details.

RSM395Y0 - Special Topics

The areas of concentration depend on the instructor teaching the course. (Offered only during the summer through the Woodsworth Summer Abroad Program). Not eligible for CR/NCR option. Contact Rotman Commerce for details.

RSM396Y0 - Special Topics

Hours: 48L

The area of concentration and location depend on the instructor teaching the course. (Offered only during the Summer Session through the Summer Abroad Program).

Not eligible for CR/NCR option. Contact Rotman Commerce for details.

MGT396Y0 - Special Topics

Hours: 48L

The area of concentration and location depend on the instructor teaching the course. (Offered only during the Summer Session through the Summer Abroad Program). Contact Rotman Commerce for details.

RSM397Y0 - Special Topics

Hours: 48L

The area of concentration and location depend on the instructor teaching the course. (Offered only during the Summer Session through the Summer Abroad Program). Not eligible for CR/NCR option. Contact Rotman Commerce for details.

MGT397Y0 - Special Topics

Hours: 48L

The area of concentration and location depend on the instructor teaching the course. (Offered only during the Summer Session through the Summer Abroad Program). Contact Rotman Commerce for details.

RSM401H1 - Independent Study Course

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Rotman Commerce and the supervising faculty member before they may enrol. Consult the Rotman Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits; Cumulative GPA of at least 2.70

MGT401H1 - Independent Study Course

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the

Director of Rotman Commerce and the supervising faculty member before they may enrol. Enrolment is restricted to students not in a Rotman Commerce program. Consult the Rotman Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits; Cumulative GPA of at least 2.70

RSM402H1 - Independent Study Course

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Rotman Commerce and the supervising faculty member before they may enrol. Consult the Rotman Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits; Cumulative GPA of at least 2.70

MGT402H1 - Independent Study Course

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Rotman Commerce and the supervising faculty member before they may enrol. Enrolment is restricted to students not in a Rotman Commerce program. Consult the Rotman Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits; Cumulative GPA of at least 2.70

MGT403Y1 - Independent Study Course

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Rotman Commerce and the supervising faculty member before they may enrol. Enrolment is restricted to students not in a Rotman Commerce program. Consult the Rotman Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits; Cumulative GPA of at least 2.70

RSM403Y1 - Independent Study Course

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Rotman Commerce and the supervising faculty member before they may enrol. Consult the Rotman

Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits; Cumulative GPA of at least 2.70

RSM404Y1 - Independent Study Course

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Rotman Commerce and the supervising faculty member before they may enrol. Consult the Rotman Commerce Office for details. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits; Cumulative GPA of at least 2.70

RSM406H1 - Special Topics in Management

Hours: 24L

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please see the Rotman Commerce website for the course description and prerequisites.

Breadth Requirements: Society and its Institutions (3)

RSM407H1 - Special Topics in Management

Hours: 24L

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please

see the Rotman Commerce website for the course description and prerequisites.

Breadth Requirements: Society and its Institutions (3)

RSM408H1 - Special Topics in Management

Hours: 24L

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please see the Rotman Commerce website for the course description and prerequisites.

Breadth Requirements: Society and its Institutions (3)

RSM409H1 - Special Topics in Management

Hours: 24L

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please see the Rotman Commerce website for the course description and prerequisites.

Breadth Requirements: Society and its Institutions (3)

RSM410H1 - Special Topics in Management

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please see the Rotman Commerce website for the course description and prerequisites.

RSM411H1 - Special Topics in Management

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please see the Rotman Commerce website for the course description and prerequisites.

RSM412H1 - Special Topics in Management

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please see the Rotman Commerce website for the course description and prerequisites.

RSM413H1 - Special Topics in Management

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please see the Rotman Commerce website for the course description and prerequisites.

RSM414H1 - Special Topics in Management

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please see the Rotman Commerce website for the course description and prerequisites.

RSM415H1 - Special Topics in Management

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please see the Rotman Commerce website for the course description and prerequisites.

RSM416H1 - Special Topics in Management

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please

see the Rotman Commerce website for the course description and prerequisites.

RSM417H1 - Special Topics in Management

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please see the Rotman Commerce website for the course description and prerequisites.

RSM418H1 - Special Topics in Management

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please see the Rotman Commerce website for the course description and prerequisites.

RSM419H1 - Special Topics in Management

Topics and issues in Management. Content in any given year will depend on the instructor. Enrolment is usually restricted to 4th year students, but the course may also be open to 3rd year students in some academic sessions.

Please check the Rotman Commerce website (www.rotmancommerce.utoronto.ca) for a full course description and for specific prerequisites each session.

Prerequisite: Completion of 9.0 or 14.0 credits as listed in the full course description in any given session. Please see the Rotman Commerce website for the course description and prerequisites.

RSM420H1 - Advanced IT Audit and Data Analytics

Hours: 24L/12T

This course is an extension of the study of areas covered in the introductory audit course and will include the application of risk and materiality to more advanced topic areas with a focus on digitized information. Other topics include special reports, future-oriented financial information and prospectuses. The course will incorporate the use of data analytics in auditing and will explore how to analyze financial data in order to assist in audit engagements. Not eligible for CR/NCR option.

Prerequisite: RSM323H1

Breadth Requirements: Society and its Institutions (3)

RSM422H1 - Management Control

Hours: 24L

This course considers the processes and systems, many accounting-based, by which key managers allegedly ensure that resources are acquired and used effectively and efficiently in the accomplishment of an organization's goals. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM222H1

Breadth Requirements: Society and its Institutions (3)

RSM424H1 - Canadian Income Taxation II

Hours: 24L/12T

This course is designed to give the student an understanding of more complex issues of Canadian income tax law and tax planning. Included are topics, such as, computation of taxes, corporate reorganizations, business acquisitions and divestitures, partnerships, joint ventures and trusts, to name a few. The two course sequence (RSM324H1 and RSM424H1) has been designed to provide coverage of the tax content required by the professional accounting bodies. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM324H1

Breadth Requirements: Society and its Institutions (3)

RSM425H1 - Financial Reporting and Control: Theory and Contemporary Topics

Hours: 24L

This course guides students to learn financial reporting theory and critically evaluate the research findings in accounting. It covers a broad range of topics such as information and measurement perspectives of accounting, agency theory and its implications and the role of network in management control. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: [RSM222H1](#), [RSM332H1](#)

Corequisite: [RSM333H1](#)

Breadth Requirements: Society and its Institutions (3)

RSM426H1 - Critical Thinking, Analysis and Decision Making

Hours: 24L/12T

This is a capstone case course stressing the pervasive competencies and critical thinking skills required from Rotman Commerce graduates, professional accountants and advisors. The course integrates the technical and practical knowledge obtained in previous courses by applying this knowledge to case type situations. Aimed at students seeking an accounting designation. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 14.0 credits, [RSM222H1](#), [RSM323H1](#), [RSM324H1](#)

Corequisite: [RSM321H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RSM428H1 - Analysis of Banking Financial Institutions and Instruments

Hours: 24L

We analyze the financial statements of banks to learn about the risk and return of bank financial assets and financial liabilities. Topics covered include interest rate risk, credit risk, market risk, fair value accounting, securitizations, derivatives and hedging of the banking firm as reflected through bank financial statements. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: [RSM219H1](#), [RSM222H1](#), [RSM333H1](#)

Breadth Requirements: Society and its Institutions (3)

RSM429H1 - Financial Statement Analysis and Valuation

Hours: 24L

This course is of interest to those pursuing a career where one needs to analyze financial statements "intelligently". This obviously includes those interested in finance related professions such as Investment Banking, Research and Investment Management. Students interested in consulting and marketing will also find this course useful because of its approach that focuses on business analysis with tie-ins to corporate strategy. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: [RSM219H1](#), [RSM222H1](#)

Breadth Requirements: Society and its Institutions (3)

RSM430H1 - Fixed Income Securities

Hours: 24L

Describes important fixed income securities and markets. The course emphasizes traditional bond and term structure concepts crucial to understand the securities traded in these markets. Students are required to work in the Rotman Financial Research & Trading Lab to solve the assigned problems using real time data. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Rotman Commerce: [RSM332H1](#); Actuarial Science: [ACT349H1](#)

Breadth Requirements: Society and its Institutions (3)

RSM432H1 - Risk Management for Financial Managers

Hours: 24L

This course examines the ways in which risks are quantified and managed by financial institutions. The principal risks considered include market risk, credit risk and operational risk. The course also covers the evolution of bank regulation and the regulatory limits on risk taking. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: [RSM333H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

RSM433H1 - Advanced Corporate Finance

Hours: 24L

Applying fundamental finance ideas developed in [RSM332H1](#) and [RSM333H1](#) to real-life problems. The course will focus on business valuation and financial decisions in practical situations, on the assumption that students are already familiar with basic concepts from previous finance courses. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Rotman Commerce: [RSM333H1](#); Actuarial Science: [ACT349H1](#)

Breadth Requirements: Society and its Institutions (3)

RSM434H1 - Financial Trading Strategies

Previous Course Number: RSM412H1
Hours: 24L

This course will use finance theory applied with Excel applications to understand potential returns and risks inherent in particular investment/trading strategies. Learning-by-doing will be facilitated by simulation-based *Rotman Interactive Trader* cases focused on particular risks. This training will be analogous to using a flight simulator for learning to fly. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: [RSM332H1](#)

Exclusion: [RSM412H1](#) Financial Trading Strategies

Breadth Requirements: The Physical and Mathematical Universes (5)

RSM435H1 - Futures and Options Markets

Hours: 24L

This course covers the analysis of derivative instruments such as forwards, futures, swaps and options. By the end of the course, students will have good knowledge of how these contracts work, how they are used and how they are priced. A fee of approximately \$36 will be charged to your student account for software purchase. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: [ECO204Y1](#)/ [ECO206Y1](#), [RSM332H1](#)

Exclusion: [ACT370H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

RSM436H1 - Sustainable Finance

Previous Course Number: RSM417H1
Hours: 24L

This course teaches students how to apply financial tools and models to the understanding of and to developing solutions for sustainability challenges as defined by the UN Sustainable Development Goals. Particular emphasis is on understanding the role of financial markets and financial constraints and incentives as a source of problems and to understanding the role of financial markets and financial tools as a source of solutions in the areas of climate change, environmental stresses, as well as social inequity and economic development across the world. Corporate ESG (Environmental, Social, and Governance) ratings and financial ESG investment tools are prominently discussed.

Prerequisite: [RSM332H1](#); [RSM333H1](#)

Exclusion: [RSM417H1](#) (Special Topics in Management: Sustainable Finance), offered in Winter 2020/Fall 2020/Fall 2021

Breadth Requirements: Society and its Institutions (3)

RSM437H1 - International Finance

Hours: 24L

International financial markets, exchange rates, forward markets, interest rate parity. International dimensions of investment, including both portfolio and foreign direct investment. International dimensions of corporate finance, including valuation and the cost of capital of foreign investments. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Rotman Commerce: [RSM333H1](#); [ECO220Y1](#)/ [ECO227Y1](#)/ ([STA220H1](#), [STA255H1](#))/ ([STA237H1](#), [STA238H1](#))/ ([STA257H1](#), [STA261H1](#))
Actuarial Science: [ACT349H1](#)

Breadth Requirements: Society and its Institutions (3)

RSM438H1 - Mergers and Acquisitions

Hours: 24L

The objective of the course is to provide an understanding of the drivers of value creation in mergers and acquisitions and to develop skills in the design, evaluation, and negotiation of these transactions. Familiarity with M&A is a foundation for effective work in a wide range of fields including investment banking, private equity, consulting, corporate development, and advising senior management.

The practice of mergers and acquisitions covers many value creation strategies including spin-offs, carve-outs,

strategic acquisitions, leveraged buyouts and going private transactions. Students will learn why companies engage in such activities, and how advisors are involved in the process. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM433H1, completion of 14.0 credits
Exclusion: RSM418H1 (Special Topics in Management: *Investment Banking and Mergers & Acquisitions*), offered in the Winter of 2022, 2023, 2024.
Breadth Requirements: Society and its Institutions (3)

RSM439H1 - Private Equity and Entrepreneurial Finance

Hours: 24L

The primary objective of the course is to improve students' ability to understand the concepts and institutions involved in private equity. The course will provide students with skill sets so they can analyze and understand private equity from multiple perspectives: the perspective of the individual/firm seeking and receiving private equity finance; the perspective of the private equity fund; and, the perspective of the limited partners that provide finance for private equity funds. Students will also learn how to build Leverage Buyout (LBO) models. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 14.0 credits; RSM333H1
Exclusion: RSM410H1 (Special Topics in Management: Private Equity and Entrepreneurial Finance), offered in Winter 2015, Winter 2018, and Fall 2018
Breadth Requirements: Society and its Institutions (3)

RSM450H1 - Marketing and Behavioural Economics

Previous Course Number: RSM418H1
Hours: 24L

What motivates consumers, investors, employees, and managers? In this highly interdisciplinary course, we will examine topics such as the role of emotions in decision-making, "irrational" patterns of how people think about products, money, or investments, and how expectations shape perceptions. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits
Exclusion: RSM418H1 (Special Topics in Management: Integrative Thinking - Psychology and Markets), offered in Fall 2008/Fall 2009/Fall 2010
Breadth Requirements: Thought, Belief and Behaviour (2)

RSM454H1 - Sales and Distribution Strategy

Hours: 24L

Once you have a great product or service to sell, you need the right channel partners and strategies to bring your offering to the end-user. This course discusses what and how many intermediaries to partner with, partner roles and responsibilities, and how to stimulate high performance from channel partners.

Prerequisite: RSM250H1
Breadth Requirements: Society and its Institutions (3)

RSM455H1 - Pricing

Hours: 24L

Approaches pricing decision as an intersection of economics and psychology. Using product categories as diverse as financial services, healthcare, industrial products and consumer packaged goods, students study dynamic pricing, value pricing, price customization, price bundling and multi-part tariffs, menu costs and price stickiness, sales promotions, and pricing in two-sided markets. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits; RSM250H1
Breadth Requirements: Society and its Institutions (3)

RSM456H1 - Big Data and Marketing Analytics

Previous Course Number: RSM411H1
Hours: 24L

The course is designed to introduce students to tools used in marketing analytics. Companies have been collecting vast databases to aid them in making sound marketing decisions. Examples include retail scanner panel data which keeps track of customers' purchase histories, loyalty-program data monitoring purchasing under different promotional environments, social network and online shopping history data. The course uses several marketing data sources to illustrate how to use statistical marketing models to evaluate the impacts of marketing-mix, and manage customer lifetime value. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: ECO220Y1/ ECO227Y1/ (STA220H1, STA255H1)/ (STA237H1, STA238H1)/ (STA257H1, STA261H1)
Exclusion: RSM411H1 (Special Topics in Management: Marketing Data, Models and Decisions), offered in Winter

2011, Winter 2012, Winter 2013, and Fall 2014
Breadth Requirements: The Physical and Mathematical Universes (5)

RSM457H1 - Strategic Marketing Communication

Hours: 24L

This course covers how marketers communicate with customers - knowledge that is useful to students both as a manager and a consumer. The course will introduce the foundation knowledge of marketing communications as well as new trends in non-traditional media including sponsorships, social media, and digital marketing.

Prerequisite: [RSM350H1](#)

Exclusion: [RSM414H1](#) (Special Topics in Management: Strategic Marketing Communication), offered in Winter 2014 and Winter 2015

Breadth Requirements: Thought, Belief and Behaviour (2)

RSM458H1 - Branding Strategy

Hours: 24L

Students will assume the role of senior marketing managers responsible for the design, implementation, and evaluation of branding strategies. Brands represent valuable assets that must be created, sustained, leveraged, and defended. This course will use case analysis and a group project to reinforce successful decision making and communication skills. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits including [RSM350H1](#)/([RSM250H1](#), [RSM392H1](#)).

Breadth Requirements: Society and its Institutions (3)

RSM459H1 - Business Design

Hours: 24L

What are the principles and practices that drive innovation in organizations? Create breakthrough solutions and businesses? This course teaches students how to identify customer needs, prototype new solutions and design business strategies to create competitive advantage. Students will apply the learning in real time and on real world challenges.

Prerequisite: 9.0 credits completed including [RSM250H1](#).

Exclusion: [RSM412H1](#)

Recommended Preparation: [RSM359H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

RSM461H1 - Managerial Negotiations

Hours: 24L

Students learn to recognize, understand, analyze, and practice essential concepts in negotiations required for understanding more complex relations within and between organizations. The main objective is to learn how to analyze the critical factors of a negotiation situation and then to be able to prescribe a course of action. A fee of \$51 will be charged to your student account for role play materials. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits; [RSM260H1](#)

Breadth Requirements: Society and its Institutions (3)

RSM462H1 - Managing People in the Context of Globalization

Previous Course Number: RSM410H1

Hours: 24L

This course introduces students to the impact of globalization on managing people. Understanding how organizational behaviour and human resource management processes work in the international context is essential for business success. This course helps students to develop a better understanding of how effective people management can create a competitive advantage in the international context. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits; [RSM260H1](#)

Exclusion: [RSM410H1](#) (Special Topics in Management: Managing Human Resources in the Context of Globalization), offered in Fall 2008/Fall 2009/Fall 2010

Breadth Requirements: Society and its Institutions (3)

RSM463H1 - The Socially Intelligent Manager

Previous Course Number: RSM412H1

Hours: 24L

One of the most critical skills in leadership is the ability to manage social relationships. The purpose of this course is to introduce you to the science of social intelligence so that you are knowledgeable and confident about how to handle interpersonal issues when you enter the business world. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits; RSM260H1
Exclusion: RSM412H1 (Special Topics in Management: The Socially Intelligent Manager), offered in Fall 2009/Fall 2010
Breadth Requirements: Thought, Belief and Behaviour (2)

RSM464H1 - Organization Theory and Its Applications

Hours: 24L

Organization theory is an evidence-based approach that allows managers to analyze and design organizations more effectively. Focusing on organizations as social systems, the course emphasizes practical implications in topics that are essential to business success, including strategy implementation, organizational structure and culture, change management, globalization, and the organizational sources of enduring competitive advantage. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits; RSM260H1
Breadth Requirements: Society and its Institutions (3)

RSM465H1 - Understanding Motivation and Incentives: Theory and Practice

Hours: 24L

This course is designed to introduce you to the fundamental principles of incentives and motivation, which are essential tools for managers. The course takes an interdisciplinary approach and you will be exposed to theories on these topics from a variety of different disciplines – behavioral decision-making, economics, organizational behavior, and psychology. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits; RSM260H1
Exclusion: RSM410H1 (Special Topics in Management: Incentives and Motivation), offered in Winter 2010/Winter 2011/Winter 2012
Breadth Requirements: Thought, Belief and Behaviour (2)

RSM466H1 - Environmental and Social Responsibility

Hours: 24L

This course examines how corporations engage in the social economy through corporate social responsibility work and how corporations are increasingly "going green."

It will cover current thinking and practice on corporate social responsibility and emphasize sustainability in business practices while allowing students to give voice to their own values. This course is open to students enrolled in the Environmental Studies Major and Minor.

Prerequisite: RC students: Completion of 9.0 credits or Enrolment in ASMAJ1254/ASMIN1254 and completion of 9.0 credits
Breadth Requirements: Society and its Institutions (3)

RSM468Y1 - Managing in Diverse Economies

Hours: 60L/12P

This is the capstone course for the Focus in Managing in Diverse Economies. It is designed to synthesize student learning from the focus, providing an opportunity for students to build on, analyze and apply what they have learned from other chosen courses of the focus. Students may apply concepts from other areas of interest through participation in this course and its deliverables and experiential learning opportunities. An application outlining areas of interest is required for participation in this course. See <https://rotmancommerce.utoronto.ca/current-students/choosing-your-courses/> for more information.

Prerequisite: 9.0 credits completed
Corequisite: ECO324H1/ ECO367H1/ ECO403H1/ POL201H1/ POL223H1
Breadth Requirements: Society and its Institutions (3)

RSM470H1 - Management Science Modeling with Spreadsheets

Hours: 24L

The course presents quantitative methods of modeling business and other systems in order to objectively evaluate available alternatives and select the 'best' one with respect to pre-defined criteria. Topics include: Decision Analysis, Linear Programming, Integer Programming, Network Methods, Simulation and Waiting Line Models. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits; ECO220Y1/ ECO227Y1/ (STA220H1, STA255H1) / (STA237H1, STA238H1) / (STA257H1, STA261H1)
Breadth Requirements: The Physical and Mathematical Universes (5)

RSM480H1 - Business in a Global Economy

Hours: 24L

Application of the analytic framework of international trade, foreign investment and exchange rate economics to management of business. Special topics include the industrial effects of trade liberalization, the role of the World Trade Organization, foreign exchange risk management, competition policy and international taxation. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: RSM333H1

Breadth Requirements: Society and its Institutions (3)

RSM481H1 - Outsourcing and the Organization of Firms

Hours: 24L

Explores the issue of outsourcing, broadly defined: which activities should a firm do "in house" and which should it take outside? Using a combination of cases and economic analysis, it develops a framework for determining the "best" organizational structure. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/(STA220H1, STA255H1)/(STA237H1, STA238H1)/(STA257H1, STA261H1)

Breadth Requirements: Society and its Institutions (3)

RSM482H1 - Game Theory for Business Strategy

Hours: 24L

Applies game-theoretic reasoning to analyze business strategy problems, focusing specifically on pricing, advertising, product positioning, product introduction, and relationships with upstream and downstream firms. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: ECO204Y1/ ECO206Y1

Breadth Requirements: Society and its Institutions (3)

RSM483H1 - Real Estate Markets

Hours: 24L

This course uses economic methods to analyze real estate markets. Topics covered include the determinants of real estate values, the location decisions of households and firms, land use, urban growth and agglomeration, behavioural real estate economics and real options. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: Completion of 9.0 credits, ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/ (STA220H1, STA255H1)/(STA237H1, STA238H1)/(STA257H1, STA261H1)

Corequisite: RSM332H1

Breadth Requirements: Society and its Institutions (3)

RSM484H1 - Real Estate Finance and Investment

Previous Course Number: RSM380H1

Hours: 24L

Real estate assets account for about one-third of the value of all capital assets in the world. This course provides an understanding of real estate investment, valuation and liabilities along with the public policy associated with home ownership, using modern finance and economic tools. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: ECO204Y1/ ECO206Y1, ECO220Y1/ ECO227Y1/(STA220H1, STA255H1)/(STA237H1, STA238H1)/(STA257H1, STA261H1), RSM332H1

Corequisite: RSM333H1

Exclusion: RSM380H1

Breadth Requirements: Society and its Institutions (3)

RSM489H1 - Business Abroad- International Experiential Learning

Hours: 24P

Offered concurrently with RSM480H1: Business in a Global Environment, students will participate in a trade mission together with a Canadian company working to enter a foreign market. For CR/NCR only.

Prerequisite: Completion of 9.0 credits

Corequisite: RSM480H1

RSM490H1 - International Strategy

Hours: 24L

Focuses on developing an understanding of the fundamentals of doing business in an international environment. Based on the application of management theory (trade theory, modes of entry, foreign direct investment, theory of the multinational) to the strategic management problems of organizing business in the international arena. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: [RSM392H1](#)

Breadth Requirements: Society and its Institutions (3)

RSM491H1 - Global Capital Market Strategy

Hours: 24L

This course exposes students to the intersection of global political economy and investment strategies, with particular emphasis on current global economic trends. The last 15 years have seen a dramatic expansion in the geographic scope for private equity investments, and in the risk involved in such investments. [RSM491H1](#) will teach students to think through the issues facing executives, investors and policy makers considering investments. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: [RSM332H1](#)

Exclusion: [RSM413H1](#) Globalization and Capital Markets: Political Economy and Investment Strategy

Breadth Requirements: Society and its Institutions (3)

RSM492H1 - Cooperative Strategy

Previous Course Number: RSM419H1

Hours: 24L

Cooperation to create economic value is a central feature of markets: from sophisticated coordination in strategic alliances to simple acts of agreement between buyers and sellers. This course goes beyond Porter's Five Forces to develop a rigorous understanding of the connections between value creation, competition and firm performance. Not eligible for CR/NCR option.

Prerequisite: [RSM392H1](#)

Exclusion: [RSM419H1](#) Cooperative Strategy

Breadth Requirements: Society and its Institutions (3)

RSM493H1 - Entrepreneurship

Hours: 24L

Introduces essentials of starting a new business: how to evaluate new opportunities, craft strategy, obtain resources, manage growth, and distribute ownership. Applies concepts from strategic management to challenges facing new/small businesses. Examines the role of entrepreneurs in spurring technological innovation and economic growth, and the effect of government policy on entrepreneurial activity. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: [RSM392H1](#)

Recommended Preparation: [RSM359H1](#)

Breadth Requirements: Society and its Institutions (3)

RSM494H1 - Technology Strategy

Hours: 24L

Teaches about technological evolution and how evolutionary stages impact firms' strategic choices. Important issues in technological evolution are technological discontinuities, standards wars, dominant designs and patenting. Important strategic decisions concern innovation management, product versus process focus and intellectual property strategies. Project oriented coursework based on patent and business data bases. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: [RSM392H1](#)

Breadth Requirements: Society and its Institutions (3)

RSM495H1 - Management Consulting

Previous Course Number: RSM416H1

Hours: 24L

This course examines the management consultant's role and how the consulting industry serves to enhance effectiveness of client organizations. Future management advisors will learn skills necessary to support successful consulting business models and how to professionally engage clients to assist in generating competitive advantage through design/implementation of innovative approaches. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: [RSM392H1](#).

Exclusion: [RSM416H1](#) Management Consulting

Breadth Requirements: Society and its Institutions (3)

RSM496H1 - Catastrophic Failure in Organizations

Hours: 24L

Addressing the risk of catastrophic failure is an increasingly important strategic challenge for firms. This course explores why modern organizations are vulnerable to catastrophic failure and how managers and consultants can manage catastrophic risks more effectively.

Prerequisite: [RSM260H1](#) or [RSM270H1](#) or [RSM392H1](#)

Exclusion: [RSM418H1](#) - Catastrophic Failure in Organizations

Breadth Requirements: Society and its Institutions (3)

RSM497H1 - Sustainability Strategy

Hours: 24L

The environmental and social impact and context of business matter like never before. Diverse stakeholders—from shareholders and lenders to workers and consumers to governments and activists—are raising their voices to ensure that these considerations are given their due in business decision-making and that firms are being transparent and accountable for performance in diverse dimensions well beyond short-term financial performance. This course takes an economics and strategy lens to consider how business leaders can and should respond to the rise of these concerns in pursuing long-run sustainable growth and prosperity. The focus is on how these so-called ESG (environmental, social, and governance) issues affect every company in every sector, rather than on social enterprise or on firms whose primary mission is to directly address social and environmental

concerns. Not eligible for CR/NCR option. Contact Rotman Commerce for details.

Prerequisite: 9.0 credits

Corequisite: [RSM392H1](#)

Exclusion: [RSM410H1](#) (Special Topics in Management: *Sustainability Strategy*), offered in the Fall of 2021, 2022, 2023.

Breadth Requirements: Society and its Institutions (3)

RSM498Y1 - Creative Destruction Lab - Advanced Course

Hours: 24L/24P

CDL Advanced is a hands-on, theory-guided course about commercializing technological innovation. Students learn the theory of startup strategy, pricing, scaling, and financing, and then apply this theory by working closely with early-stage technology ventures in the CDL program. In addition to their direct work with a CDL venture, students participate in CDL-Toronto meetings which offers them the opportunity to observe and interact with CDL's network of experienced entrepreneurs and investors. Enrolment in this course is by application. Students who have completed the CDL introductory course ([RSM391H1](#)) may apply.

Prerequisite: Completion of 14.0 credits including [RSM391H1](#) and successful application

Breadth Requirements: Society and its Institutions (3)

St. Michael's College

Faculty List

Professors Emeriti

D. Donovan, SSL, DrTheol
A. Dooley, MA, PhD

Professors

J. Ginther, MA, PhD
M. G. McGowan, MA, PhD
I. Morra, MA, PhD
G. Silano, LLB, MA, PhD
D. A. Wilson, MA, PhD

Associate Professors

R. Locklin, MTS, PhD
B. Miles, MA, PhD

Assistant Professors

A. Hincks, SJ, PhD
R. Macchioro, MA, PhD

Professor, Teaching Stream

D. Sylvester, MA, PhD (USMC) (President & Vice-Chancellor)

Associate Professors, Teaching Stream

I. J. Gildea, MA, PhD (USMC)
P. Granata, MA, MA, PhD (USMC)
A. More, MA, PhD
M. O'Connor, PhD, STB, STL, DPhil (USMC)
F. Parker, MA, PhD (USMC)

Assistant Professors, Teaching Stream

G. Gaimari, MA, PhD
J.O. Richard, PhD (USMC)
P. Sheehan, MA
S. Tardif, MA, PhD (USMC)
X. Wu, MA, PhD

Introduction

St Michael's College prides itself on its lively interdisciplinary programs and its welcoming, diverse community. Students study with world-leading scholars in a beautiful setting that provides all the advantages of a small liberal arts college and all the opportunities of a major research university. Classes are held primarily in the historic grounds of the College and are complemented by the resources of the Kelly Library, the second-largest library at UofT. Students are encouraged to explore, discover, and excel in their classes and through various experiential opportunities that can include working with a printing press, taking up research internships, experimenting with VR, and studying abroad.

More information can be found on the St. Michael's College website: stmikes.utoronto.ca

Programs

Book and Media Studies

The Book and Media Studies program studies how the tools with which humans have communicated – whether they're illustrated manuscripts, radio broadcasts, propaganda posters, musical performances, digital media, or AI – shape ideas and societies. Examining various forms of media throughout history and into the modern age, the program takes a global perspective as it asks: how do these media forms influence how we understand the world, ourselves, and our relationship with each other? Students are provided with exciting opportunities to experiment with the latest AI, to study with renowned journalists, and to work hands-on with printing presses.

The Arts & Science Internship Program (ASIP) stream is available to students entering their second year of study and enrolled in the Book and Media Studies Major. In exceptional circumstances, students, including transfer students, who enrolled in the Book & Media Studies Major after Year 2, may also be admitted to the ASIP stream in the Fall of Year 3. Acceptance into an ASIP stream in Year 3 is dependent on space and requires approval of the student's academic unit and the Faculty of Arts & Science Experiential Learning & Outreach Support (ELOS) Office. Please refer to the ASIP Eligibility page on the Faculty of Arts & Science website for further details.

Celtic Studies

Celtic Studies is an interdisciplinary program that focuses on the rich history, mythology, literature, politics, and culture of Scotland, Ireland, and Wales. The program also provides students with the opportunity to study different languages, from Old Welsh to modern Irish and Lowland Scots. The program is host to a vibrant speaker series and offers awards opportunities for students interested in furthering their research abroad.

Christianity and Culture

The Christianity and Culture program is an interdisciplinary program that is open to everyone of all faiths and backgrounds. Courses explore the relationship between Christianity, culture, and society throughout the ages and in a variety of cultural and global contexts. Subjects studied include Christianity and politics; magic and astronomy; social justice and gender; philosophy and theology; and the rich engagement of literature, theatre, art, and music with differing understandings of Christian inspiration and expression. Through small seminar-style classes that foster scholarly exchange, intellectual community, and the recognition of a shared search for

meaning, this program explores the diversity of humanity's response to the Christian faith.

Mediaeval Studies

The interdisciplinary Mediaeval Studies program studies the history, culture, and languages of the period between the fifth and fifteenth century, an age (sometimes also called "medieval" or "the Middle Ages") associated by many with the legends of King Arthur and magical beasts, beautiful illuminated manuscripts, the proliferation of monastic traditions, Vikings and Celts, and exciting developments in scientific, theological, and philosophical thought. Students have the opportunity to study Middle English and Latin, to explore medieval manuscripts, and to pursue independent research projects. The program also encourages students to explore the reception and legacy of the mediaeval world in subsequent centuries and in various forms of art and culture.

For more information about our programs please see the St. Michael's College website or email smc.programs@utoronto.ca.

SMC One: First-Year Seminars

The Gilson Seminar in Faith and Ideas

First-year students explore the intersection of faith with today's most important questions. This course also features a two-week international learning experience in Rome that explores the roles that the Catholic Church and Vatican have played in ecology, science, literature and politics. Ancillary fees will apply.

The Boyle Seminar in Scripts and Stories

First-year students investigate the intersection of Celtic and mediaeval cultures through manuscript analysis and language instruction.

The McLuhan Seminar in Creativity and Technology

First-year students explore the relationship between creativity and technology and the individual, social, and cultural effects of innovation.

First-Year Foundations Courses

These small class-sized courses offer first-year students an introduction to inter-disciplinary university-level studies through a topic chosen by its instructor.

Principal & Vice President: 81 St. Mary Street, Room 127, Odette Hall (416-926-7148)

St. Michael's College Programs

Book and Media Studies Major (Arts Program) - ASMAJ1300

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following course with the stated minimum grade is required:

- BMS100H1 (70%)

To ensure students admitted to the program are successful, applications with a final grade lower than 70% will not be considered for admission. Please note that obtaining the minimum final grade does not guarantee admission to the program.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2. Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry and there are program-specific year 3 entry enrolment requirements. Students applying for Year 3 entry must have been admitted to the Book & Media Studies Major in the Summer after Year 2 and have completed BMS100H1, BMS200Y1 and BMS201H1.

Completion Requirements:

(6.0 credits, including at least 3.0 credits at the 300+ level, of which a 0.5 credit must be at the 400-level)

1. BMS100H1, BMS200Y1, BMS201H1

2. At least 3.5 credits from the following list including at least 2.5 with the BMS designator:

BMS300H1/ BMS301H1/ BMS302H1/ BMS303H1/
BMS311H1/ BMS312Y1/ BMS314H1/ BMS316H1/
BMS319H1/ BMS320H1/ BMS331H1/ BMS332H1/
BMS333H1/ BMS350H1/ BMS351H1/ BMS352H1/
BMS353H1/ BMS354H1/ BMS380H1/ BMS381H1/
BMS386H1/ BMS387H1/ BMS389H1/ BMS391H1/
BMS392H1/ BMS393H1/ BMS394H1/ BMS395Y1/
BMS400H1/ BMS401H1/ BMS402H1/ BMS403H1/
BMS411H1/ BMS430H1/ BMS431H1/ BMS432H1/
BMS433H1/ BMS434H1/ BMS494H1/ BMS495Y1/
JSM354H1/ ANT253H1/ ANT349H1/ CAR321H1/
CDN221H1/ CDN355H1/ CHC203Y1/ CHC305H1/
CHC364H1/ CHC367H1/ CHC382H1/ CIN214H1/
CIN364H1/ CIN371H1/ CLT355H1/ CLT374H1/
CRE372H1/ DHU235H1/ DHU236H1/ DHU335H1/
EAS242H1/ EAS243H1/ EAS279H1/ EAS349H1/
EAS355H1/ EAS391H1/ EAS392H1/ EAS394H1/
EAS370H1/ EAS421H1/ EAS488H1/ ENG234H1/
ENG235H1/ ENG287H1/ ENG322Y1/ ENG357H1/
ENG382Y1/ ENV361H1/ FAH252H1/ FAH319H1/
FAH352H1/ FAH382H1/ FAH446H1/ FRE310H1/
FRE324H1/ FRE344H1/ GER210H1/ GER220H1/
GER251H1/ GER290H1/ GER315H1/ GER367H1/
HIS302H1/ HIS393H1/ HPS202H1/ HPS206H1/
HPS313H1/ HPS325H1/ INS302H1/ ITA348H1/
LCT306H1/ MCS325H1/ MCS327H1/ MST210H1/
MST212H1/ MST358H1/ MST406H1/ MST435H1/
MUS300H1/ PHL256H1/ PSY427H1/ REN345H1/
REN442H1/ SDS346H1/ SLA203H1/ SLA254H1/
SLA266H1/ SLA303H1/ SLA333H1/ SLA346H1/
SMC155H1/ SMC165H1/ SMC188H1/ URB234H1/
WGS271Y1/ WRR301H1/ WRR303H1

3. BMS400H1/ BMS401H1/ BMS402H1/ BMS403H1/
BMS411H1/ BMS430H1/ BMS431H1/ BMS432H1/
BMS433H1/ BMS434H1

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

Book and Media Studies Minor (Arts Program) - ASMIN1300

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Completed courses (with minimum grades)

The following course with the stated minimum grade is required:

- BMS100H1 (70%)

To ensure students admitted to the program are successful, applications with a final grade lower than 70% will not be considered for admission. Please note that obtaining the minimum final grade does not guarantee admission to the program.

Completion Requirements:

(4.0 credits, including 1.5 credits at the 300+ level)

1. BMS100H1, BMS200Y1, BMS201H1

2. At least 2.0 credits from the following list including at least 1.5 with the BMS/SMC designator:

BMS300H1/ BMS301H1/ BMS302H1/ BMS303H1/
BMS311H1/ BMS312Y1/ BMS314H1/ BMS316H1/
BMS319H1/ BMS320H1/ BMS331H1/ BMS332H1/
BMS333H1/ BMS350H1/ BMS351H1/ BMS352H1/
BMS353H1/ BMS354H1/ BMS380H1/ BMS381H1/
BMS386H1/ BMS387H1/ BMS389H1/ BMS391H1/
BMS392H1/ BMS393H1/ BMS394H1/ BMS395Y1/
BMS400H1/ BMS401H1/ BMS402H1/ BMS403H1/
BMS411H1/ BMS430H1/ BMS431H1/ BMS432H1/
BMS433H1/ BMS434H1/ BMS494H1/ BMS495Y1/
JSM354H1/ ANT253H1/ ANT349H1/ CAR321H1/
CDN221H1/ CDN355H1/ CHC203Y1/ CHC305H1/
CHC364H1/ CHC367H1/ CHC382H1/ CIN214H1/
CIN364H1/ CIN371H1/ CLT355H1/ CLT374H1/
CRE372H1/ DHU235H1/ DHU236H1/ DHU335H1/
EAS242H1/ EAS243H1/ EAS279H1/ EAS349H1/
EAS355H1/ EAS391H1/ EAS392H1/ EAS394H1/
EAS370H1/ EAS421H1/ EAS488H1/ ENG234H1/
ENG235H1/ ENG287H1/ ENG322Y1/ ENG357H1/
ENG382Y1/ ENV361H1/ FAH252H1/ FAH319H1/
FAH352H1/ FAH382H1/ FAH446H1/ FRE310H1/
FRE324H1/ FRE344H1/ GER210H1/ GER220H1/
GER251H1/ GER290H1/ GER315H1/ GER367H1/
HIS302H1/ HIS393H1/ HPS202H1/ HPS206H1/
HPS313H1/ HPS325H1/ INS302H1/ ITA348H1/
LCT306H1/ MCS325H1/ MCS327H1/ MST210H1/
MST212H1/ MST358H1/ MST406H1/ MST435H1/
MUS300H1/ PHL256H1/ PSY427H1/ REN345H1/
REN442H1/ SDS346H1/ SLA203H1/ SLA254H1/
SLA266H1/ SLA303H1/ SLA333H1/ SLA346H1/
SMC155H1/ SMC165H1/ SMC188H1/ URB234H1/
WGS271Y1/ WRR301H1/ WRR303H1

Celtic Studies Specialist (Arts Program) - ASSPE1682

Examines the literature, languages, history, music, folklore and archaeology of the peoples of Ireland, Scotland and Wales in the ancient and modern worlds, including the transmission of Celtic traditions to Canada and the United States.

Enrolment Requirements:

Enrolment in the Celtic Studies Specialist will be administratively suspended as of January 1, 2024 and students will no longer be able to enrol in the program. Students presently enrolled in the Specialist will be able to complete the program requirements as described below. Students who are not enrolled in the Specialist but are interested in Celtic Studies are strongly recommended to consult St. Michael's College for advising, as well as consider pursuing the Celtic Studies Major or Minor instead.

Completion Requirements:

(10.5 credits including 4.0 credits at the 300+level, 1.0 of which must be at the 400-level)

1. CLT240H1 and CLT241H1
2. 2.0 credits from the following language courses:
CLT141Y1/ CLT242Y1/ CLT243Y1/ CLT251H1/ CLT252H1/ CLT331H1/ CLT332H1
3. 6.0 credits from the list above and/or SMC165H1/ MST226H1/ CLT250H1/ CLT333H1/ CLT334H1/ CLT335Y1/ CLT337H1/ CLT338H1/ CLT341H1/ CLT342Y1/ CLT343H1/ CLT344Y1/ CLT345H1/ CLT346H1/ CLT347H1/ CLT348H1/ CLT350H1/ CLT351H1/ CLT355H1/ CLT356H1/ CLT373H1/ CLT374H1/ CLT375H1/ CLT376H1/ CLT377H1/ CLT378H1/ CLT395Y1/ CLT396H1/ CLT411H1/ CLT412H1/ CLT413H1/ CLT416H1/ CLT420H1/ CLT440H1/ CLT441H1/ CLT444H1/ CLT445H1/ SMC441Y1/ SMC457H1
4. CLT451Y1
5. 0.5 credit from CLT341H1/ CLT348H1/ CLT377H1/ CLT378H1/ CLT444H1/ CHC232H1/ CHC370H1/ CHC371H1/ CHC383H1/ MST341H1/ SMC385H1 or 0.5 credit 200+ level from Breadth Requirement Category 5: The Physical and Mathematical Universes.

Note: Effective Fall 2021, courses associated with St. Michael's College's Celtic Studies, Christianity and Culture, and Mediaeval Studies programs will have the new "CLT," "CHC," and "MST" designators respectively.

Celtic Studies Major (Arts Program) - ASMAJ1682

Examines the literature, languages, history, music, folklore and archaeology of the peoples of Ireland, Scotland and Wales in the ancient and modern worlds, including the transmission of Celtic traditions to Canada and the United States.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(6.5 credits, including at least 2.0 credits at the 300+level, of which 0.5 credit must be at the 400-level)

1. CLT240H1 and CLT241H1
2. 4.0 credits from the list below: CLT110H1/ CLT141Y1/ CLT242Y1/ CLT243Y1/ CLT251H1/ CLT252H1/ CLT331H1/ CLT332H1/ CLT333H1/ CLT337H1/ CLT338H1/ CLT339H1/ CLT340H1/ CLT341H1/ CLT345H1/ CLT346H1/ CLT347H1/ CLT348H1/ CLT350H1/ CLT353H1/ CLT374H1/ CLT378H1/ CLT395Y1/ CLT396H1/ CLT411H1/ CLT413H1/ CLT420H1/ CLT440H1/ CLT441H1/ SMC165H1/ SMC441Y1/ SMC457H1/ MST226H1
3. 0.5 credit from CLT341H1/ CLT348H1/ CLT377H1/ CLT378H1/ CLT418H1/ CLT444H1/ CHC232H1/ CHC370H1/ CHC371H1/ CHC383H1/ MST341H1/ SMC385H1 or a 0.5 credit at the 200/300/400-level from Breadth Requirement Category 5: The Physical and Mathematical Universes.

Celtic Studies Minor (Arts Program) - ASMIN1682

Examines the literature, languages, history, music, folklore and archaeology of the peoples of Ireland, Scotland and Wales in the ancient and modern worlds, including the transmission of Celtic traditions to Canada and the United States.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

4.0 credits chosen from those listed below, including at least 1.0 credit at the 300+ level

CLT110H1/ CLT141Y1/ CLT242Y1/ CLT243Y1/
CLT244H1/ CLT251H1/ CLT252H1/ CLT331H1/
CLT332H1/ CLT333H1/ CLT336H1/ CLT337H1/
CLT338H1/ CLT339H1/ CLT340H1/ CLT341H1/
CLT345H1/ CLT346H1/ CLT347H1/ CLT348H1/
CLT350H1/ CLT353H1/ CLT374H1/ CLT378H1/
CLT395Y1/ CLT396H1/ CLT411H1/ CLT413H1/
CLT420H1/ CLT440H1/ CLT441H1/ SMC165H1/
SMC441Y1/ SMC457H1/ MST226H1

Christianity And Culture Major (Arts Program) - ASMAJ0463

A multidisciplinary exploration of Christian traditions from artistic, literary, philosophical, theological, scientific, social and historical perspectives.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(6.0 credits, including at least 2.0 credits at the 300+ level, of which a 0.5 credit must be at the 400-level.)

First year: No specific first-year requirements

1. CHC203Y1
2. 1.5 credits from CHC200H1/ CHC215H1/ CHC218H1/ CHC232H1
3. 3.0 credits from any of the courses below, of which 2.0 credits must have the CHC designator. Courses from other departments may be accepted on a case-by-case basis. Please contact the Program Coordinator, preferably before taking the course. It will help to have a syllabus for the course being considered.

Christianity and Society:

CHC120H1/ CHC130H1/ CHC215H1/
CHC303H1/ CHC304H1/ CHC308H1/
CHC309H1/ CHC322H1/ CHC362H1/
CHC368H1/ CHC372H1/ CHC379H1/
CHC456H1/ CLT240H1/ CLT241H1/ CLT353H1/
CLT413H1/ JCR303H1/ MST210H1/ MST212H1/
MST361H1/ SMC188H1/ SMC189H1/
SMC397H1/ NMC270H1/ RLG414H1

Christianity and the Arts:

CHC200H1/ CHC305H1/ CHC364H1/
CHC365H1/ CHC367H1/ CHC369H1/
CHC382H1/ CHC384H1/ CLT343H1/ MST213H1/
MST222H1/ MST323H1/ MST326H1/ MST328H1/
SMC165H1/ SMC464H1/ ITA311H1/ REN241H1

Christianity and Science:

CHC232H1/ CHC370H1/ CHC371H1/
CHC383H1/ JCA302H1/ REN242H1

Christianity and Education:

CHC218H1/ CHC306H1/ CHC307H1/
CHC311H1/ CHC312H1/ CHC313H1/
CHC327H1/ CHC330H1/ CLT350H1/ MST324H1/
MST358H1/ MST359H1

Independent Study and Seminar Courses:

CHC300H1/ CHC390Y1/ CHC391H1/
CHC400H1/ CHC433Y1/ CHC434H1/
CHC471H1/ CHC472H1/ MST406H1/ MST407Y1/
MST436H1/ SMC457H1

4. 0.5 credit from CHC232H1/ CHC370H1/ CHC371H1/ CHC383H1/ JCA302H1/ SMC385H1 or any 0.5 credit from a 200/300/400-level course from Breadth Requirement Category 5: The Physical and Mathematical Universes

Christianity And Culture Minor (Arts Program) - ASMIN0463

An exploration of Christian traditions which may include artistic, literary, philosophical, theological, scientific, social or historical perspectives.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300+level)

First year: No specific first-year requirements

1. CHC203Y1
2. 1.0 credit from CHC200H1/ CHC215H1/ CHC218H1/ CHC232H1
3. 2.0 credits from any of the courses below, of which 1.5 credits must have the CHC designator. Courses from other departments may be accepted on a case-by-case basis. Please contact the Program Coordinator, preferably before taking the course. It will help to have a syllabus for the course being considered.

Christianity and Society:

CHC120H1/ CHC130H1/ CHC215H1/ CHC303H1/
CHC304H1/ CHC308H1/ CHC309H1/ CHC322H1/
CHC362H1/ CHC368H1/ CHC372H1/ CHC379H1/
CHC456H1/ CLT240H1/ CLT241H1/ CLT353H1/
CLT413H1/ JCR303H1/ MST210H1/ MST212H1/

MST361H1/ SMC188H1/ SMC189H1/ SMC397H1/
NMC270H1/ RLG414H1

Christianity and the Arts:

CHC200H1/ CHC305H1/ CHC364H1/ CHC365H1/
CHC367H1/ CHC369H1/ CHC382H1/ CHC384H1/
CLT343H1/ MST213H1/ MST222H1/ MST323H1/
MST326H1/ MST328H1/ SMC165H1/ SMC464H1/
ITA311H1/ REN241H1

Christianity and Science:

CHC232H1/ CHC370H1/ CHC371H1/ CHC383H1/
JCA302H1/ REN242H1

Christianity and Education:

CHC218H1/ CHC306H1/ CHC307H1/ CHC311H1/
CHC312H1/ CHC313H1/ CHC327H1/ CHC330H1/
CLT350H1/ MST324H1/ MST358H1/ MST359H1

Independent Study and Seminar Courses:

CHC300H1/ CHC390Y1/ CHC391H1/ CHC400H1/
CHC433Y1/ CHC434H1/ CHC471H1/ CHC472H1/
MST406H1/ MST407Y1/ MST436H1/ SMC457H1

Minor Program in Christianity and Education (Arts Program) - ASMIN1014

This program offers students the opportunity to consider the theory, practice and history of Christian pedagogy.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including at least 1.0 credit at the 300+ level)

First Year: No specific first-year requirements

1. CHC203Y1
2. CHC218H1, CHC312H1 and CHC313H1
3. 1.5 credits from any of the courses listed below, with at least 1.0 credit carrying the CHC designator. Students can choose courses from all course groups. Courses from other departments may be accepted on a case-by-case basis. Please contact the Program Coordinator, preferably before taking the course. It will help to have a syllabus for the course being considered.

Christianity and Society: CHC120H1/ CHC215H1/
CHC303H1/ CHC304H1/ CHC308H1/
CHC309H1/ CHC322H1/ CHC362H1/
CHC368H1/ CHC372H1/ CHC379H1/

CHC456H1/ CLT240H1/ CLT241H1/ CLT413H1/
JCR303H1/ MST210H1/ MST212H1/ MST361H1/
SMC188H1/ SMC189H1/ SMC397H1/
NMC270H1/ RLG414H1

Christianity and the Arts: CHC200H1/ CHC305H1/

CHC364H1/ CHC365H1/ CHC367H1/
CHC369H1/ CHC382H1/ CHC384H1/ CLT343H1/
MST213H1/ MST222H1/ MST323H1/ MST326H1/
MST328H1/ SMC165H1/ SMC464H1/ ITA311H1

Christianity and Science: CHC232H1/

CHC370H1/ CHC371H1/ CHC383H1/ JCA302H1/
REN242H1

Christianity and Education: CHC218H1/

CHC306H1/ CHC307H1/ CHC311H1/
CHC312H1/ CHC313H1/ CHC327H1/
CHC330H1/ CLT350H1/ MST324H1/ MST358H1/
MST359H1

Independent Study and Seminar Courses:

CHC300H1/ CHC390Y1/ CHC391H1/
CHC400H1/ CHC433Y1/ CHC434H1/
CHC471H1/ CHC472H1/ MST406H1/ MST407Y1/
MST436H1/ SMC457H1

Note: Effective Fall 2021, courses associated with St. Michael's College's Christianity and Culture, Celtic Studies, and Mediaeval Studies programs will have the new "CHC," "CLT," and "MST" designators respectively.

Christianity and Culture: Major Program in Religious Education (Arts Program) - ASMAJ1021

Completion Requirements:

Admission to the Christianity and Culture: Major Program in Religious Education has been administratively suspended as of 1 April 2015 and is no longer admitting students. Students presently enrolled in the minor will be able to complete the program requirements as described below.

IMPORTANT NOTE: Status may be reviewed at the end of each fall-winter session to determine progress to subsequent years.

Consult Principal's Office, St. Michael's College.

(8.0 credits, 2.0 credits at the 300+level, of which a 0.5 credit must be at the 400-level)

1. SMC103Y1

2. CHC313H1, JSV200H1, JSV201H1 (formerly SMC272H1), JSV202H1 (formerly SMC271H1)
3. 0.5 credit from the following (internship options): CHC471H1/ SMC366H1 (formerly SMC218Y1)/ SMC362Y1
4. 4.5 credits from: courses carrying the CHC designator, RLG100Y1/ RLG280Y1, and SMC472Y1/ CHC472H1. Of the 4.5 credits, at least 1.5 credits must come from the following: CHC203Y1/ CHC232H1/ CHC307H1/ CHC308H1/ CHC311H1/ CHC327H1/ CHC330H1/ CHC382H1

Note: Effective Fall 2021, courses associated with St. Michael's College's Christianity and Culture program will have the new "CHC" designator.

Mediaeval Studies Specialist (Arts Program) - ASSPE1231

An interdisciplinary treatment of the history, art, literature and thought of the Middle Ages.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(12.0 credits, including at least 4.0 credits at the 300+ level, 1.0 of which must be at the 400-level)

1. 0.5 credit from the introductory courses: MST210H1/ MST212H1/ SMC165H1/ SMC176Y1.
2. 2.0 credits from the foundational courses which provide further introduction into more specific aspects of Mediaeval Studies: CHC200H1/ CHC307H1/ CHC327H1/ CHC367H1/ MST222H1/ MST230H1/ MST231H1/ MST232H1/ MST233H1/ MST234H1/ MST242H1/ MST323H1/ MST328H1/ MST358H1/ MST359H1/ MST361H1/ SMC176Y1.
3. 2.0 credits from the following Latin courses: LAT101H1/ LAT102H1/ LAT201H1/ LAT202H1/ MST222H1/ MST323H1/ MST328H1/ MST436H1/ SMC176Y1.
4. 6.0 credits from the following elective courses, with at least 2.0 credits from courses with an SMC/CHC/CLT/MST designator. Students can choose courses from all four groups.

History:

MST201H1/ MST202H1/ MST211H1/ MST230H1/ MST231H1/ MST232H1/ MST233H1/ MST234H1/ MST300H1/ MST301H1/ MST340H1/ MST401H1/ MST442H1/ CHC215H1/ CHC322H1/ CLA378H1

CLT337H1/ CLT338H1/ CLT344Y1/ HIS208Y1/ HIS220Y1/ HIS251Y1/ HIS320H1/ HIS321H1/ HIS322H1/ HIS323H1/ HIS336H1/ HIS403H1/ HIS424H1/ HIS426H1/ HIS427H1/ HIS428H1/ HIS432H1/ HIS434Y1/ HIS438H1/ HPS201H1/ HPS430H1/ NMC270H1/ NMC273Y1/ NMC275H1/ NMC342H1/ NMC376H1/ NMC377Y1/ SLA253H1/ SMC165H1

Thought:

MST200Y1/ MST210H1/ MST212H1/ MST213H1/ MST242H1/ MST324H1/ MST341H1/ MST359H1/ MST361H1/ CHC307H1/ CHC327H1/ CHC368H1/ CHC383H1/ CLA336H1/ CLT350H1/ MAT390H1/ PHL200Y1/ PHL205H1/ PHL206H1/ PHL303H1/ PHL304H1/ PHL307H1/ PHL308H1/ PHL309H1/ PHL336H1/ RLG241H1

Literature:

MST222H1/ MST226H1/ MST323H1/ MST328H1/ MST436H1/ CLT110H1/ CLT343H1/ CLT373H1/ CLT440H1/ CLT441H1/ CLT445H1/ BMS351H1/ ENG240Y1/ ENG300Y1/ ENG311H1/ ENG330H1/ ENG385H1/ FRE318H1/ FRE471H1/ ITA311H1/ ITA312H1/ ITA320H1/ LAT101H1/ LAT102H1/ LAT201H1/ LAT202H1/ NMC255H1/ NMC350H1/ SLA330H1/ SLA400H1/ SMC176Y1/ SMC441Y1/ SPA450H1

The Arts:

MST326H1/ MST358H1/ CHC200H1/ CHC367H1/ CLT344Y1/ FAH215H1/ FAH216H1/ FAH318H1/ FAH319H1/ FAH327H1/ FAH328H1/ FAH420H1/ FAH421H1/ FAH424H1/ FAH492H1

And from the *intensive research courses* with changing topics in the fourth year: MST406H1/ MST407Y1/ MST435H1/ SMC457H1

5. 0.5 credit from CHC232H1/ CHC370H1/ CHC371H1/ CHC383H1/ MST242H1/ MST341H1/ MST442H1/ SMC385H1 or 0.5 credit of 200+ level course from Breadth Requirement Category 5: The Physical and Mathematical Universes.

6. MST490Y1

Note:

- MST300H1 is offered through the Centre for Medieval Studies.

Mediaeval Studies Major (Arts Program) - ASMAJ1231

An interdisciplinary treatment of the history, art, literature and thought of the Middle Ages.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits, including at least 2.0 credits at the 300+ level, 0.5 of which must be at the 400-level)

1. 0.5 credit from the introductory courses: MST210H1/ MST212H1/ SMC165H1/ SMC176Y1.
2. 1.0 credit from the foundational courses which provide further introduction into more specific aspects of Mediaeval Studies: CHC200H1/ CHC307H1/ CHC327H1/ CHC367H1/ MST222H1/ MST230H1/ MST231H1/ MST232H1/ MST233H1/ MST234H1/ MST242H1/ MST323H1/ MST328H1/ MST358H1/ MST359H1/ MST361H1/ SMC176Y1.
3. 4.5 credits from the following elective courses, with at least 1.5 credits from courses with an SMC/CHC/CLT/MST designator. Students can choose courses from all four groups.

History:

MST201H1/ MST202H1/ MST211H1/ MST230H1/ MST231H1/ MST232H1/ MST233H1/ MST234H1/ MST300H1/ MST301H1/ MST340H1/ MST401H1/ MST442H1/ CHC215H1/ CHC322H1/ CLA378H1/ CLT337H1/ CLT338H1/ CLT344Y1/ HIS208Y1/ HIS220Y1/ HIS251Y1/ HIS320H1/ HIS321H1/ HIS322H1/ HIS323H1/ HIS336H1/ HIS403H1/ HIS424H1/ HIS426H1/ HIS427H1/ HIS428H1/ HIS432H1/ HIS434Y1/ HIS438H1/ HPS201H1/ HPS430H1/ NMC270H1/ NMC273Y1/ NMC275H1/ NMC342H1/ NMC376H1/ NMC377Y1/ SLA253H1/ SMC165H1

Thought:

MST200Y1/ MST210H1/ MST212H1/ MST213H1/ MST242H1/ MST324H1/ MST341H1/ MST359H1/ MST361H1/ CHC307H1/ CHC327H1/ CHC368H1/ CHC383H1/ CLA336H1/ CLT350H1/ MAT390H1/ PHL200Y1/ PHL205H1/ PHL206H1/ PHL303H1/ PHL304H1/ PHL307H1/ PHL308H1/ PHL309H1/ PHL336H1/ RLG241H1

Literature:

MST222H1/ MST226H1/ MST323H1/ MST328H1/ MST436H1/ CLT110H1/ CLT343H1/ CLT373H1/ CLT440H1/ CLT441H1/ CLT445H1/ BMS351H1/ ENG240Y1/ ENG300Y1/ ENG311H1/ ENG330H1/ ENG385H1/ FRE318H1/ FRE471H1/ ITA311H1/ ITA312H1/ ITA320H1/ LAT101H1/ LAT102H1/ LAT201H1/ LAT202H1/ NMC255H1/ NMC350H1/ SLA330H1/ SLA400H1/ SMC176Y1/ SMC441Y1/ SPA450H1

The Arts:

MST326H1/ MST358H1/ CHC200H1/ CHC367H1/ CLT344Y1/ FAH215H1/ FAH216H1/ FAH318H1/

FAH319H1/ FAH327H1/ FAH328H1/ FAH420H1/ FAH421H1/ FAH424H1/ FAH492H1

And from the intensive research courses with changing topics in the fourth year: MST406H1, MST407Y1, MST435H1, SMC457H1.

4. 0.5 credit from CHC232H1/ CHC370H1/ CHC371H1/ CHC383H1/ MST242H1/ MST341H1/ MST442H1/ SMC385H1 or 0.5 credit of 200+ level course from Breadth Requirement Category 5: The Physical and Mathematical Universes.

5. 0.5 credit from the following: MST406H1/ MST407Y1/ MST435H1/ MST436H1/ SMC457H1/ MST490Y1.

Note:

- MST300H1 is offered through the Centre for Medieval Studies.

Mediaeval Studies Minor (Arts Program) - ASMIN1231

An interdisciplinary treatment of the history, art, literature and thought of the Middle Ages.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits including at least 1.0 credit at the 300+ level)

1. 0.5 credit from the introductory courses: MST210H1/ MST212H1/ SMC165H1/ SMC176Y1
2. 1.0 credit from the foundational courses: CHC200H1/ CHC307H1/ CHC327H1/ CHC367H1/ MST222H1/ MST230H1/ MST231H1/ MST232H1/ MST233H1/ MST234H1/ MST242H1/ MST323H1/ MST328H1/ MST358H1/ MST359H1/ MST361H1/ SMC176Y1
3. 2.5 credits from the foundational courses listed in requirement 2 above or from the elective courses listed below.

History:

MST201H1/ MST202H1/ MST211H1/ MST230H1/ MST231H1/ MST232H1/ MST233H1/ MST234H1/ MST300H1/ MST301H1/ MST340H1/ MST401H1/ MST442H1/ CHC215H1/ CHC322H1/ CLA378H1/ CLT337H1/ CLT338H1/ CLT344Y1/ HIS208Y1/ HIS220Y1/ HIS251Y1/ HIS320H1/ HIS321H1/ HIS322H1/ HIS323H1/ HIS336H1/ HIS403H1/ HIS424H1/ HIS426H1/ HIS427H1/ HIS428H1/ HIS432H1/ HIS434Y1/ HIS438H1/ HPS201H1/ HPS430H1/ NMC270H1/ NMC273Y1/

NMC275H1/ NMC342H1/ NMC376H1/ NMC377Y1/ SLA253H1/ SMC165H1

Thought:

MST200Y1/ MST210H1/ MST212H1/ MST213H1/ MST242H1/ MST324H1/ MST341H1/ MST359H1/ MST361H1/ CHC307H1/ CHC327H1/ CHC368H1/ CHC383H1/ CLA336H1/ CLT350H1/ MAT390H1/ PHL200Y1/ PHL205H1/ PHL206H1/ PHL303H1/ PHL304H1/ PHL307H1/ PHL308H1/ PHL309H1/ PHL336H1/ RLG241H1

Literature:

MST222H1/ MST226H1/ MST323H1/ MST328H1/ MST436H1/ CLT110H1/ CLT343H1/ CLT373H1/ CLT440H1/ CLT441H1/ CLT445H1/ BMS351H1/ ENG240Y1/ ENG300Y1/ ENG311H1/ ENG330H1/ ENG385H1/ FRE318H1/ FRE471H1/ ITA311H1/ ITA312H1/ ITA320H1/ LAT101H1/ LAT102H1/ LAT201H1/ LAT202H1/ NMC255H1/ NMC350H1/ SLA330H1/ SLA400H1/ SMC176Y1/ SMC441Y1/ SPA450H1

The Arts:

MST326H1/ MST358H1/ CHC200H1/ CHC367H1/ CLT344Y1/ FAH215H1/ FAH216H1/ FAH318H1/ FAH319H1/ FAH327H1/ FAH328H1/ FAH420H1/ FAH421H1/ FAH424H1/ FAH492H1

And from the *intensive research courses* with changing topics in the fourth year: MST406H1/ MST407Y1/ MST435H1/ SMC457H1

Note:

- MST300H1 is offered through the Centre for Medieval Studies.

Faculty of Arts & Science Language Citation

Irish Language

St. Michael's College Celtic Studies Program participates in the Faculty of Arts and Science's Language Citation initiative for Irish. The Celtic Program is noted for its instruction in modern Irish language, as a key expression of its commitment to the continued thriving of the indigenous languages of the Celtic nations. Competence in Irish greatly benefits the study of Irish literature, folklore and music, and gives students a familiarity with the characteristics of Celtic languages that assists in further study of Scottish Gaelic, Welsh and Breton.

The Language Citation recognizes a significant level of achievement in a language study with a high level of academic success. Students who have earned this recognition are equipped with the practical and theoretical basis for graduate study.

The Language Citation is available to students who achieve a B- or above in 2.0 credits beyond the first-year course in a language. The Citation in Irish Language is available to students who complete CLT141Y1, and earn a grade of at least B- in all of CLT251H1, CLT252H1, CLT331H1, and CLT332H1.

Students should note that, as explained in the [About Programs of Study](#) section of this Calendar, the Language Citation is not equivalent to an academic program and that enrolment in a program is not necessary in order to earn the recognition bestowed by the Citation.

To request the Citation, email your request with your student ID number to the Celtic Studies Program Coordinator. Submit your request as soon as you complete all the courses to be considered.

Mediaeval Latin Language

St. Michael's College Mediaeval Studies program participates in the Faculty of Arts and Science's Language Citation initiative for Mediaeval Latin. Our program is known for its integral approach to the Middle Ages, including its emphasis on essential research skills such as Latin. Familiarity with Mediaeval Latin not only adds a complementary linguistic and literary dimension to a student's study, but is essential for advanced research in mediaeval sources.

The Language Citation recognizes a significant level of achievement in a language study with a high level of academic success. Students who have earned this recognition are equipped with the practical and theoretical basis for graduate study.

The Language Citation is available to students who achieve a B- or above in 2.0 credits beyond the first-year course in a language. The Citation in Mediaeval Latin is available to students who complete LAT101H1 and LAT102H1, and earn a grade of at least B- in 2.0 credits chosen from MST222H1, MST323H1, MST328H1, MST400Y1, and MST436H1.

Students should note that, as explained in the [About Programs of Study](#) section of this Calendar, the Language Citation is not equivalent to an academic program and that enrolment in a program is not necessary in order to earn the recognition bestowed by the Citation.

To request the Citation, email your request with your student ID number to the Mediaeval Studies Program Coordinator. Submit your request as soon as you complete all the courses to be considered.

St. Michael's College Courses

SMC First-Year Foundations

SMC195H1 - God and Money in the Middle Ages

Hours: 24S

This seminar considers the ethical, political, and spiritual questions arising from the existence of wealth and poverty in medieval European culture. With readings from Dante, Chaucer, Thomas Aquinas and others, the course will examine how the interaction of spiritual ideals and material realities shaped cultural developments from late antiquity to the Protestant Reformation. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

SMC196H1 - God and the Poets: Lyric Form in the Christian Tradition

Hours: 24S

This course will develop the skills fostered by the close reading of poetry by exploring how the most sophisticated forms of language have been used to address the highest possible subjects in the Christian literary tradition. With readings in English, we will survey poetry in a range of languages and forms, giving particular attention to how, in lyric poetry, poets have addressed themselves to God—from devotion to desperation, ecstasy to outrage, tenderness to terror. In addition to building the necessary skills for reading, describing, and analyzing poetry, this course will also develop other research skills. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SMC197H1 - The Sistine Chapel: History, Imagery, Usage

Hours: 24S

The Sistine Chapel in Rome is a historical artifact, an artistic monument, and a house of worship—at once recognizable and mystifying. This seminar explores fifteenth-century origins, decoration by some of the most accomplished artists of the Italian renaissance, and continuing use (especially the election of popes). Topics will include: art and patronage, rhetoric and ritual,

controversial restoration, and the Sistine Chapel in popular culture—with an emphasis on the close analysis of the major frescoes. The seminar will develop the academic skills needed for the analysis and discussion of texts, paintings, and ritual events. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SMC198H1 - How to Study Video Games

Hours: 36S

Games and play are a fundamental part of human society, and today digital games occupy a central place in popular culture, media industries, and the imaginations of players around the world. This seminar introduces students to the growing academic field of game studies, with an emphasis on close analysis of specific games as cultural objects. Through lectures, discussions, and in-class play sessions, students will build a critical vocabulary and toolbox of techniques for understanding the unique formal, aesthetic, narrative, and thematic properties of games in a variety of platforms and genres, and develop basic academic reading, writing, and research skills. No previous experience or expertise with video games is required to take this course. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SMC199H1 - Intelligence, Artificial and Human

Hours: 36S

What is human intelligence? How close are we to replicating it? How productive/reductive is the brain-computer analogy? What ethical challenges are posed by AI on workers, society, and the environment? Can we put a hold on "progress"? Is Silicon Valley the seat of a new techno-religion? What can they teach us about today's research priorities? What insight (or inspiration) can we get from works of science fiction about the future of human-AI interaction? Through reading discussion, written assignment, and workshops, this seminar will present students with the opportunity to integrate their computer science interests with philosophy, history, and literature. *There is an equivalent course offered by the Department of Computer Science. Students may take one or the other but not both.* Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: [CSC199H1](#)

Breadth Requirements: Society and its Institutions (3)

SMC One: First-Year Seminars

SMC155H1 - SMC One: The McLuhan Seminar in Creativity and Technology

Hours: 12L/12S

This seminar is an interdisciplinary exploration of the relationship between creativity and technology. Inspired by the innovative thinking of Marshall McLuhan, it explores how the humanities relate to other fields of thought and research in addressing the individual, social and cultural experiences and effects of technological innovation. This course may include a compulsory travel component (location to be determined based on travel restrictions). (An ancillary fee of \$1,750 is required to help cover a portion of the travel costs.) Not eligible for CR/NCR option.

This course is restricted to newly admitted Faculty of Arts and Science students accepted to SMC One. Applications are due before the end of April (deadline subject to change). Apply via the JOIN U of T website.

<https://stmikes.utoronto.ca/program/smc-one-mcluhan-seminar>

Prerequisite: Admission to SMC One
Breadth Requirements: Creative and Cultural Representations (1)

SMC165H1 - SMC One: The Boyle Seminar in Scripts and Stories

Hours: 24L/12S

This seminar introduces students to university-level studies through an interdisciplinary exploration of Celtic influences in the mediaeval world, with a particular focus on early books and historical artifacts as physical objects and bearers of meaning. Students will learn how to read and analyse these books and artifacts to decode their meanings, and, in support of that, take introductory language instruction in Latin and Irish. Subjects discussed will include intercultural encounter and dialogue, research methods with historical sources, and the relationship between the written word and lived experience, then and now. A co-curricular, optional travel opportunity to Dublin, Ireland may be associated with this course. If the trip is offered and you choose to go, an ancillary fee of \$1,750 is required to help cover a portion of the travel costs. Not eligible for CR/NCR option.

This course is restricted to newly admitted Faculty of Arts and Science students accepted to SMC One. Applications are due before the end of April (deadline subject to change). Apply via the JOIN U of T website.

<https://stmikes.utoronto.ca/program/smc-one-boyle-seminar>

Prerequisite: Admission to SMC One
Breadth Requirements: Creative and Cultural Representations (1)

SMC185H1 - SMC One: The Christianity, Truth and Reconciliation Seminar

Hours: 24L/12T

This seminar critically explores the complex relations of Christianity and Indigenous peoples of Turtle Island, with a special focus on education. Sample topics include: settler colonialism and treaty relationships; prominent Indigenous Christians, critics and reformers; the residential school system; the Truth and Reconciliation Commission of Canada; recent initiatives in ecclesial repentance, dialogue, and enculturation. The course includes guest speakers and compulsory co-curricular activities, including travel to residential school site(s) and archives in Ontario during the fall reading week. The costs of these activities are supported by the University of St. Michael's College. Not eligible for CR/NCR option.

This course is restricted to newly admitted Faculty of Arts and Science students accepted to SMC One. Applications are due before the end of April (deadline subject to change). Apply via the JOIN U of T website.

<https://stmikes.utoronto.ca/program/smc-one-christianity-truth-reconciliation-seminar>

Prerequisite: Admission to SMC One
Breadth Requirements: Thought, Belief and Behaviour (2)

SMC188H1 - SMC One: The Gilson Seminar in Faith and Ideas

Previous Course Number: SMC188Y1
Hours: 12L/12S

This seminar is an interdisciplinary exploration of leading scholarly, intellectual and public questions related to ecology, science, literature, and public life. From a variety of perspectives, the seminar considers how religion, and how different kinds of religious experience, figure in the broader context of human affairs. Not eligible for CR/NCR option. Enrolment in SMC188H1 will automatically enroll

you in [SMC189H1](#) at the departmental level. The department will enroll you in [SMC189H1](#) before the start of the term.

<https://stmikes.utoronto.ca/program/smc-one-the-gilson-seminar-in-faith-and-ideas>

Breadth Requirements: Thought, Belief and Behaviour (2)

SMC189H1 - SMC One: The Gilson Seminar in Faith and Rome

Previous Course Number: SMC188Y1

Hours: 24L

This course provides an intensive international learning experience in Rome, Italy. It offers contemporary and historical models of integrating faith with reason, and religious practice with intellectual, creative, and public engagement, specifically the roles that the Catholic Church and Vatican play in Rome, in ecology, science, literature, and public life. This course includes a mandatory travel component to Rome, Italy, which takes place following the Winter term exam period. An ancillary fee is required to help cover a portion of the travel costs. Not eligible for CR/NCR option.

<https://stmikes.utoronto.ca/program/smc-one-the-gilson-seminar-in-faith-and-ideas>

Prerequisite: [SMC188H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

Book and Media Studies

BMS100H1 - Introduction to Book & Media Studies

Previous Course Number: SMC219Y1

Hours: 24L/12T

Introduces the academic study of media in all its forms, including books and print media as well as modern electronic and digital media. Provides an overview of key theories of media, culture, and society and relates them to contemporary issues, enabling students to apply different critical approaches to their everyday experiences with media.

Exclusion: [SMC219Y1](#), [CCT218H5](#), [MDSA01H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

BMS110Y1 - The Printed Book

Hours: 48L

In this full-year seminar, students will learn about the revived art of letterpress printing. Starting with a historical overview of the printing itself—from the development of movable type onwards—and its massive impact on society, this course will teach students about the importance of printing, the development of the book as technology, and their power, then and now, to shape humanity. Topics covered will include the development of movable type and of the printing press, the emergence of books as a form of knowledge transmission, and the way both have affected the way we live our lives. Students will have an opportunity to produce printed materials using 19th and 20th century printing presses.

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

BMS200Y1 - Book & Media Histories

Previous Course Number: SMC219Y1

Hours: 48L/24T

Traces the long history of media in culture and society, including books and other communication technologies. Covers historical developments including orality and writing, printing and the book, image and sound reproduction, wired and wireless communication, electronic and broadcast media, and contemporary digital media. Examples and case studies will be drawn from a variety of different sociocultural contexts, media industries, and creative practices.

Exclusion: [SMC219Y1](#)

Recommended Preparation: [BMS100H1](#)

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

BMS201H1 - Information Literacy, Writing, and Research for Book & Media Studies

Hours: 24L

Develops foundational skills for students in Book & Media Studies, including academic writing, information literacy, media literacy, citation, qualitative and quantitative research, primary and secondary sources, library resources, and practical techniques for analyzing different forms of media.

Exclusion: [ACMB01H3](#)

Recommended Preparation: [BMS100H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

BMS300H1 - Special Topics in Book & Media Theories

Previous Course Number: SMC300H1

Hours: 24L

This course offers students the opportunity to explore key issues and questions in the theory of books and media. The exact topic will change depending on the instructor. Possible topics include but are not limited to: specific theorists, theoretical schools, or traditions; theories of particular aspects or forms of media; theoretical debates or comparative approaches; interdisciplinary theory.

Prerequisite: ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

BMS301H1 - Special Topics in Book & Media Cultures

Previous Course Number: SMC301H1

Hours: 24L

This course offers students the opportunity to explore cultural questions and issues related to books and media. The exact topic will change depending on the instructor. Possible topics include but are not limited to: cultural studies approaches; issues of identity and representation; media and ideology; national, regional, or sub-cultural media; cross-cultural analysis; media genres, styles, and conventions.

Prerequisite: ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

BMS302H1 - Special Topics in Book & Media Histories

Hours: 24L

This course offers students the opportunity to explore book and media history and historical research. The exact topic will change depending on the instructor. Possible topics include but are not limited to: particular periods or areas in book and media history; histories of specific media forms or styles; histories of media representation; historical research methods and approaches; industrial histories; comparative histories.

Prerequisite: ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

BMS303H1 - Special Topics in Book & Media Industries

Hours: 24L

This course offers students the opportunity to explore the industrial contexts in which books and media are made. The exact topic will change depending on the instructor. Possible topics include but are not limited to: particular media industries; national or regional publishing or media industries; approaches to studying media and cultural industries; specific aspects of media production, distribution, or reception; the relationship between different media industries; convergence and consolidation in media industries.

Prerequisite: ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

BMS311H1 - Open Topics in Book & Media Studies

Hours: 24L

This course is reserved for unique topics not already covered in other courses. The exact topic will change depending on the instructor.

Prerequisite: Completion of 9.0 credits

BMS312Y0 - Open Topics in Book & Media Studies

Hours: 48L

Offered as part of the Summer Abroad Program, this course provides students the opportunity to explore book and media cultures and historical research. The exact topic will change depending on the instructor. Possible topics include but are not limited to: particular periods or areas in book and media history; histories of specific media forms or styles; histories of media representation and cultures; historical research methods and approaches; cross-cultural analysis; national, regional, or sub-cultural media; comparative histories and culture. Students should check the [Summer Abroad Program website](#) for details.

Recommended Preparation: [BMS100H1](#)/ [BMS200Y1](#)/ [BMS201H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

BMS314H1 - Media Revolutions

Previous Course Number: SMC314H1

Hours: 24L

This class offers a deeper examination of the intersections of technology and human thought, perception and culture. The advent of new media technologies, from literacy through to social media, will be examined as revolutions in technology, semantic fields of cultural meaning-making and human action. Students gain a strong focus on technological advancements as insights into cross-cultural change at significant turning points in book and media history.

Prerequisite: ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

Exclusion: [SMC314H1](#)

Breadth Requirements: Society and its Institutions (3)

BMS316H1 - Social Media & Digital Platforms

Previous Course Number: SMC316H1

Hours: 24L

Social media, digital platforms, and networked technologies are deeply embedded in our contemporary lives, both shaping and shaped by users. But what are their social, cultural, political, and economic impacts? What consequences do they have for how we think, feel, socialize, work, play, and understand ourselves? Students in this course will explore, examine, and debate these questions with reference to their everyday experiences and current examples.

Prerequisite: ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

Exclusion: [SMC316H1](#), [CCT331H5](#), [MDSB15H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

BMS319H1 - Media Ethics

Previous Course Number: SMC319H1

Hours: 24L

Provides students with a theoretical foundation that enables them to identify and analyze ethical issues in mainstream and non-mainstream media. Traditional principles of journalistic truth-seeking, objectivity, and minimizing harm are revisited in the light of global, interactive media, produced by both citizens and professionals.

Prerequisite: ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

Exclusion: [SMC319H1](#), [MDSC63H3](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

BMS320H1 - Media and Trauma

Hours: 24L

This course explores the intersection of media studies and cultural trauma theory through decolonizing frameworks. Students will learn theoretical foundations of cultural trauma theory with which they will engage mixed media narratives including film, books, music, video games and social media. Throughout the semester, we will focus on the construction of survivor-centered narratives amidst norms of popular media cultures and industries.

Prerequisite: [BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)

Exclusion: [BMS301H1](#) (Special Topics in Book and Media Cultures: Trauma & Media), offered in Fall 2021, Summer 2022, Fall 2022; [BMS301H1](#) (Special Topics in Book and Media Cultures: Books, Media & Music), offered in Winter 2022; [SMC317H1](#) (Books, Media, and Music: Trauma), offered in Fall 2020 and Summer 2021

Breadth Requirements: Creative and Cultural Representations (1)

BMS331H1 - The History of the Book: Elements of Bibliography and Print Culture

Previous Course Number: SMC228H1

Hours: 24L/12T

An exploration of the history of the book from ancient inscriptions to e-books. This course develops an awareness of the interplay between material object and conceptual categories in book history by focusing on significant episodes in the evolution of the book as a medium, such as the rise of the context and the introduction of print. This course also delves in the practices of bibliography, the features of typography, and the material details of the printing process, while also highlighting the interdisciplinary nature of book history from a global perspective. Typically, this course will involve in-person workshops and visits to print studios and rare books collections on campus.

Prerequisite: ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

Exclusion: [SMC228H1](#)

Breadth Requirements: Society and its Institutions (3)

BMS332H1 - The History of Reading: Readers, Readerships, Reception

Previous Course Number: SMC229H1

Hours: 24L

This course explores the history of reading. Attention is given to the pivotal episodes in this history with a focus on its changing modes and shifting cultural significance. By surveying the habits, institutions, and aims of reading, students in this course will gain a greater understanding of its rich history and its complex evolution, and will enable them to reflect on the critical place of reading in their daily lives.

Prerequisite: ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

Exclusion: SMC229H1

Breadth Requirements: Society and its Institutions (3)

BMS333H1 - Impacts of Advertising Typography

Hours: 24L

Creative and eye-catching typography has long been used to sell products and services. In this course, the history of advertising typography will be explored in connection with its influence on popular culture, consumer markets, and the on the rise of typographic trends. A special emphasis will be placed on the development and use of wood type during the nineteenth century and its role in the proliferation of advertising media. Students will have an opportunity to produce printed materials using 19th and 20th century printing presses.

Prerequisite: [BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)

Recommended Preparation: [BMS331H1](#), [BMS332H1](#)

Breadth Requirements: Society and its Institutions (3)

BMS350H1 - Propaganda and Media

Previous Course Number: SMC470H1

Hours: 24S

This course assesses ways in which governments, political parties, news agencies and other groups and institutions use media to shape particular messages or describe current events. Each week the seminar will focus on a major historical event, the manner in which it was reported and interpreted, and principal challenges to that interpretation. A wide variety of media will be analyzed including: books, newspapers, film, radio, television, and the internet. Events such as the War on Terror, the Great War, the Dreyfus Affair, the Irish Famine, and the "Red Scare" are among some of the topics that will be

discussed. Students will prepare unique assignments akin to the work done by communications officers.

Prerequisite: ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

Exclusion: [SMC430H1](#) (Advanced Topics in Book and Media Studies I: Media Manipulation and History), offered in Winter 2016; [SMC470H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

BMS351H1 - The Illustrated Dante

Hours: 24L

This course will explore the multifaceted relationship between text, image, and culture from late medieval illuminated manuscripts up to the present day through an examination of illustrated versions of Dante's Divine Comedy. As early as the fourteenth century and into the present day, the reading and reception of Dante Alighieri's Divine Comedy has been tied to its presentation in illustration. Students will also study how engagements with Dante's poem have given life to visual responses and creative re-elaborations.

Prerequisite: [BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)

Exclusion: [BMS302H1S](#) (Special Topics in Book & Media Histories: *The Illustrated Dante*) offered in Winter 2024.

Breadth Requirements: Creative and Cultural Representations (1)

BMS352H1 - Media and the Myths of Romance

Hours: 24L

This course explores the intersections of historical and contemporary media narratives, technologies, and industries in the construction and representation of mainstream romance narratives. Romance tropes and myths will be deconstructed through feminist, queer, disability and decolonial theories of gender, class, sexuality, race and body image at the intersections of film, music, literature, tv, video games and/or social media to expose marginalizing and disempowering tropes at the center of dominant constructions and representations of romantic love.

Prerequisite: [BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)

Exclusion: [BMS301H1](#) (Special Topics in Book & Media Cultures: *Media & The Myths of Romance*) offered in Winter 2024.

Breadth Requirements: Creative and Cultural Representations (1)

BMS353H1 - Fandom, Fan Fiction, and Participatory Culture

Previous Course Number: BMS301H

Hours: 24L

In this course, students will explore the idea of fandom, the history of fandom and fandom scholarship, fan activities across the globe, and what it means to be a fan. By applying the broad conceptual frame of participatory culture, the course will examine a wide range of fan creations. It will also examine the evolution of fan interaction with the objects of fandom, with the media industry, and with society at large. Students will have the opportunity to explore and create some fan artefacts of their own, and in the process, to dive deep into the complex world of fandom.

Prerequisite: [BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)

Exclusion: [BMS301H1](#) (Special Topics in Book & Media Cultures: *Fandom and Fan Fiction*) offered in Fall 2023.

Breadth Requirements: Creative and Cultural Representations (1)

JSM354H1 - Stone Books to Sky Books: The Book as Institution, Commerce and Art

Previous Course Number: SLA254H1

Hours: 24L

Evolution of the book and printed media in Central and Eastern Europe: legends (and forgeries) of ancient letters, mediaeval illuminated manuscripts, forbidden and "supernatural" books, hand-written and painted books of modernist and avant-garde artists, books as a way of living and dying. Readings in English.

Prerequisite: 4.0 credits

Exclusion: [SLA254H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

BMS354H1 - Transnationalism and East Asian Media

Hours: 24L

This course examines East Asian media industries and cultures in a transnational context. Topics to be explored include media production, distribution, reception, and regulation; representation, identity, and nationhood; cross-cultural exchange; and the global circulation of East Asian media. Media and cultural forms examined may include print media, film, television, radio, news media, popular

music, animation, comics, video games, digital media, and social media.

Prerequisite: [BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

BMS380H1 - Staging Britishness from Shakespeare to the BBC

Hours: 24L

This course explores various approaches to the staging of national identity and history in Britain from the sixteenth century to the present day. Students will study a range of dramatic works and examine evolving ideas of what can constitute a national stage or theatre. Subjects to be explored include ceremonial royal pageantry from Elizabethan England to televised coronations and investitures; the history of television, radio, and the BBC as a communal playhouse; arts festivals, national exhibitions, and the amateur pageant play; revisionist stagings of Shakespeare's history plays; challenges to ideas of Britishness in England, Scotland, and Wales. (Offered in alternate years.)

Prerequisite: Completion of 4.0 credits

Recommended Preparation: [CLT241H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

BMS381H1 - Cool Britannia? Popular Music Culture and Postwar Britain

Hours: 24L

Since the 1960s "British Invasion," British popular music has been associated with the cultural strength of modern Britain and the voice and character of its 'people.' Through an examination of major musical movements from the 1950s to the present day (including skiffle, punk, 2-Tone, New Romantic, Britpop, grime), students will explore how these perceptions have been perpetuated and challenged through various media amidst evolving understandings of nation, class, race, gender, and empire. Topics include the role of pirate and state-sanctioned radio; the history of music magazines; and the relationship between music and film, television, fashion, photography, and the national media. Offered in alternate years.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: [HIS349H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

BMS386H1 - Book and Media Internship

Previous Course Number: SMC386H1

Hours: 48P

Credit is offered to a student doing an internship with a media organization. A faculty supervisor assesses and assigns the necessary written component cognate to the internship. Students are responsible for securing their own internship.

A description of the internship, working bibliography, marking scheme, and academic supervisor's support must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/bms-internship-form> or from the SMC Principal's Office, smc.programs@utoronto.ca.

Enrolment in this course is intended for Book and Media Studies Majors not enrolled in the Arts & Science Internship (ASIP) stream of the program. Not eligible for CR/NCR option.

Prerequisite: ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

Exclusion: [SMC386H1](#)

Breadth Requirements: Society and its Institutions (3)

BMS387H1 - Advertising and Media

Previous Course Number: SMC387H1

Hours: 24L

This course presents a critical media studies approach to advertising and consumer culture, past and present. Advertising, marketing, branding, and promotion play a central role in capitalist societies and media industries, reflecting and refracting dominant cultural attitudes and ideologies. How does advertising shape what and how we consume? What are its social, cultural, economic, and environmental impacts? Students will learn to analyze the form, content, and ideology of advertisements, and think critically about the advertising they are subjected to in everyday life.

Prerequisite: ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

Exclusion: [SMC387H1](#), [CCT316H5](#), [MDSB03H3](#)

Breadth Requirements: Creative and Cultural Representations (1)

BMS389H1 - Libraries, Special Collections, and Archives

Hours: 24L

This course takes a hands-on approach to introduce students to different types of printed and manuscript primary and secondary sources. Students will learn to apply information literacy concepts, and library and archival theories to the analysis, critique, evaluation, and use of materials drawn from the University of Toronto's collections of library, rare book, and archival materials.

This course will touch on current topics within information literacy, including, but not limited to, digitization, the ethical collection and use of oral and written information; post-colonial practices; racial, cultural, and gender representations; and archival neutrality.

Prerequisite: ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

Exclusion: [SMC300H1](#) (Special Topics in Book and Media Studies I: Libraries, Special Collections and Archives), offered in Winter 2017, Winter 2018, Fall 2018 and Fall 2019

Breadth Requirements: Society and its Institutions (3)

BMS391H1 - The Media Franchise

Hours: 24L

Reflective of the broader logics of media convergence, media franchises spread their commercial interests and imaginary worlds across many multiple media. For media industries, franchises maximize profits by linking together movies, TV series, books, comics, games, toys, merchandise, and promotional paratexts to encourage consumption. At the same time, they are a platform for new forms of serial narrative, world-building, and transmedia storytelling, and generate vibrant, diverse fan cultures that are sometimes at odds with franchise producers. Drawing on a wide range of scholarly and critical work, this course examines popular media franchises from historical, economic/industrial, formal/aesthetic, and sociocultural perspectives.

Prerequisite: [BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)

Exclusion: [SMC301H1](#) ("The Media Franchise", offered in Winter 2018, 2019, 2020, and 2021), [BMS303H1](#) ("The Media Franchise", offered in Fall 2022)

Breadth Requirements: Creative and Cultural Representations (1)

BMS392H1 - Media Identities

Previous Course Number: SMC392H1

Hours: 24L

An exploration of media's influence on the constructions and representation of identity and power relations across race, gender and class in individual and collective spheres. Applies a social justice and intersectional

framework to media technologies and industries in order to expose socio-political influence on identity and to position media consumption and production as potential vehicles for restorative mediations of marginalized identities.

Prerequisite: (BMS100H1, BMS200Y1, BMS201H1) or SMC219Y1

Exclusion: SMC392H1, CCT314H5, MDSC02H3

Breadth Requirements: Creative and Cultural Representations (1)

BMS393H1 - Media Ecology

Hours: 24L

This course presents an advanced introduction to Media Ecology, an interdisciplinary field of inquiry which examines how media environments affect human affairs, understanding, feelings, and values. Building on the assigned readings, students will examine the various theories of Media Ecology, honing their skills of assessment, analysis, criticism, and reflection. An interdisciplinary approach informed by literature, philosophy, anthropology, semiotics, aesthetics, and history will provide students with the opportunity to critically evaluate some crucial and controversial issues facing contemporary society.

Prerequisite: BMS100H1, BMS200Y1, BMS201H1

Exclusion: BMS300H1 ("Media Ecology", offered in Winter 2022 and Fall 2022)

Breadth Requirements: Creative and Cultural Representations (1)

BMS394H1 - Independent Study in Book and Media Studies

Previous Course Number: SMC398H1

An independent research project to be proposed by the student and supervised by a full-time faculty member affiliated with the Book & Media Studies Program.

A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: (BMS100H1, BMS200Y1, BMS201H1) or SMC219Y1

BMS395Y1 - Independent Study in Book and Media Studies

Previous Course Number: SMC388Y1

An independent research project to be proposed by the student and supervised by a full-time faculty member affiliated with the Book & Media Studies Program. A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: (BMS100H1, BMS200Y1, BMS201H1) or SMC219Y1

BMS400H1 - Advanced Topics in Book & Media Theories

Hours: 24S

This course is an advanced seminar on theoretical approaches to books and media. Students can expect to take an active role in leading course discussions and developing their own research projects. The exact topic will change depending on the instructor. In some terms this course may require an application. This will be clearly noted in the Timetable.

Prerequisite: Any BMS 0.5 credit at the 300-level and SMC219Y1/(BMS100H1, BMS200Y1, BMS201H1). Further prerequisites may vary from year to year, consult the current Timetable for more information.

BMS401H1 - Advanced Topics in Book & Media Cultures

Hours: 24S

This course is an advanced seminar on the cultural aspects of book and media studies. Students can expect to take an active role in leading course discussions and developing their own research projects. The exact topic

will change depending on the instructor. In some terms this course may require an application. This will be clearly noted in the Timetable.

Prerequisite: Any BMS 0.5 credit at the 300-level and SMC219Y1/(BMS100H1, BMS200Y1, BMS201H1). Further prerequisites may vary from year to year, consult the current Timetable for more information.

BMS402H1 - Advanced Topics in Book & Media Histories

Hours: 24S

This course is an advanced seminar on the history of books and media. Students can expect to take an active role in leading course discussions and developing their own research projects. The exact topic will change depending on the instructor. In some terms this course may require an application. This will be clearly noted in the Timetable.

Prerequisite: Any BMS 0.5 credit at the 300-level and SMC219Y1/(BMS100H1, BMS200Y1, BMS201H1). Further prerequisites may vary from year to year, consult the current Timetable for more information.

BMS403H1 - Advanced Topics in Book & Media Industries

Hours: 24S

This course is an advanced seminar on the industrial and economic aspects of books and media. Students can expect to take an active role in leading course discussions and developing their own research projects. The exact topic will change depending on the instructor. In some terms this course may require an application. This will be clearly noted in the Timetable.

Prerequisite: Any BMS 0.5 credit at the 300-level and SMC219Y1/(BMS100H1, BMS200Y1, BMS201H1). Further prerequisites may vary from year to year, consult the current Timetable for more information.

BMS411H1 - Advanced Open Topics in Book & Media Studies

Hours: 24S

This seminar is reserved for unique topics not already covered in other courses. The exact topic will change depending on the instructor. In some terms this course

may require an application. This will be clearly noted in the Timetable.

Prerequisite: Completion of 9.0 credits

BMS420H1 - Bookbinding Then and Now

Hours: 24L

A survey of the history and development of bookbinding technologies from the sixteenth century to the modern day. Through a combination of lectures and tutorials, this course will explore how the construction of books as physical objects has influenced the transmission of knowledge and the development of society. Special attention is paid to binding structures. Students will have an opportunity to fabricate book objects.

Prerequisite: BMS100H1, BMS200Y1, BMS201H1
Recommended Preparation: BMS331H1, BMS332H1
Breadth Requirements: Society and its Institutions (3)

BMS421H1 - Histories of Letterpress Printing

Hours: 24L

In this senior seminar course, students will have a hands-on opportunity to learn about the Western letterpress tradition from its fifteenth century emergence to its nineteenth century rise as an industrial trade. Framed by the apprenticeship model that supported the growth of printers as a trade, where apprentices would train under a master to become a journeyman, this course will expose students to all steps involved in producing letterpress materials set within a historical context. Social issues associated with the printing industries, such as working conditions and the rise of guilds, will also be explored. Students will have an opportunity to produce printed materials using 19th and 20th century printing presses.

Prerequisite: BMS100H1, BMS200Y1, BMS201H1
Recommended Preparation: BMS331H1, BMS332H1
Breadth Requirements: Society and its Institutions (3)

BMS430H1 - Mindful Media

Hours: 24S

This seminar integrates critical media studies with mindfulness pedagogy to yield an experiential and theoretical exploration of critical media literacy. A critical media studies lens is applied to various topics that dominate contemporary mediascapes, such as violence,

mental health, body image, etc. Through experiential practice and study of mindfulness pedagogy, students develop practices of critical media literacy able to be applied to their own lives and in future work/study in various media industry and educational praxes.

Prerequisite: A BMS 0.5 credit at the 300-level, SMC219Y1/ (BMS100H1, BMS200Y1, BMS201H1)

Exclusion: BMS401H1 (Advanced Topics in Book & Media Cultures: *Mindful Media: Theory & Practice*) offered in Winter 2024.

Breadth Requirements: Thought, Belief and Behaviour (2)

BMS431H1 - Media and Environmental Justice

Hours: 24S

This course explores the relatively new field of ecomedia to consider how media technologies, mainstream media practices and dominant media narratives intersect and contribute to global environmental crises. Students will engage in individual and collaborative qualitative and experiential research methods to apply critical media literacy skills and decolonial lenses to reimagine how contemporary media practices can promote environmental justice and/or cultivate a reparative eco-consciousness on individual and collective levels.

Prerequisite: BMS100H1, BMS200Y1, BMS201H1, an additional BMS 0.5 credit at the 300-level

Exclusion: BMS401H1 (Advanced Topics in Book & Media Cultures: *Environmental Justice & Media*) offered in Winter 2023.

Breadth Requirements: Thought, Belief and Behaviour (2)

BMS432H1 - The Game Industry

Hours: 24S

Commercial video games are an extremely profitable global industry, emblematic of how media is produced, distributed, marketed, and monetized in contemporary capitalism. Students will examine a variety of issues, including the history of the industry, consolidation and concentration of ownership, digital distribution and platformization, systemic sexism, racism, and discrimination in the industry, labour and collective organizing, independent and alternative game production cultures, local, regional, national and transnational contexts, and more. To make sense of these complex phenomena, students will learn to apply critical lenses and methods from game studies, media industry studies, and cultural studies. No previous experience or expertise with

video games or knowledge of the game industry is required to take this course.

Prerequisite: BMS 100H1, BMS200Y1, BMS201H1 and a BMS 0.5 credit at the 300-level.

Exclusion: BMS403H1 (Advanced Topics in Book & Media Industry: *The Game Industry*) offered in Winter 2024.

Breadth Requirements: Creative and Cultural Representations (1)

BMS433H1 - Video Games and Culture

Hours: 24S

From early mainframe computers to arcades, home video game consoles, mobile devices, VR, and beyond, digital games have become increasingly central within contemporary culture. Why do we make and play games? How do games produce experiences, make meaning, and reflect or refract ideology, and what impact do they have on players? Who gets to make, play, and find representation in games, and who is left out? What role do games play in the contemporary media ecosystem? Through scholarly research and interactive examples, this seminar-style class will explore digital games and culture from a variety of critical perspectives, including history, industry, technology, culture, politics, and aesthetics. No previous experience or expertise with video games is required.

Prerequisite: BMS100H1, BMS200Y1, BMS201H1, and a BMS 0.5 credit at the 300-level

Breadth Requirements: Creative and Cultural Representations (1)

BMS434H1 - Boys' Love and the Culture of Desire

Hours: 24L

The Boys' Love genre of homoerotic stories primarily written by women for women originated in East Asia and has gained international popularity in recent years. From novels and manga to live action TV series, the world of Boys' Love is ever expanding to become increasingly more inclusive and global, reflecting a fast-changing world and an amazingly multifaceted understanding of desire. This class looks at Boys' Love from its historical origins to its modern manifestations, to explore how the genre reflects the hidden desires of its international audience communities.

Prerequisite: BMS100H1, BMS200Y1, BMS201H1, at least 0.5 courses with a BMS code.

Exclusion: BMS401H1 (Advanced Topics in Book & Media Cultures: *Boys' Love and the Culture of Desire*)

offered in Winter 2023.

Breadth Requirements: Creative and Cultural Representations (1)

BMS494H1 - Independent Study in Book and Media Studies

An independent research project to be proposed by the student and supervised by a full-time faculty member affiliated with the Book & Media Studies Program. A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Any BMS 0.5 credit at the 300-level, ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

BMS495Y1 - Independent Study in Book and Media Studies

An independent research project to be proposed by the student and supervised by a full-time faculty member affiliated with the Book & Media Studies Program. A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Any BMS 0.5 credit at the 300-level, ([BMS100H1](#), [BMS200Y1](#), [BMS201H1](#)) or [SMC219Y1](#)

Celtic Studies

CLT110H1 - Celtic Mythology and Saga

Previous Course Number: CLT250H1
Hours: 24L

The medieval Celtic nations were home to one of the richest imaginative literary traditions of Western Europe. This course will introduce students to the literature from medieval Ireland and Wales that portrayed both the adventures of the Celtic gods and goddesses, and heroic 'saga', by which is meant the exploits of Ireland's and Britain's prehistoric heroes. The course will also trace continuities in the storytelling of medieval Ireland and Wales with the culture of the Continental Celts of Antiquity, and will include examination of the role of literacy and the advent of Christianity on the islands' native mythologies. The course assumes no prior familiarity with Celtic literature and history and all texts will be read in English translation.

Exclusion: [CLT250H1](#), [SMC250Y1](#), [SMC250H1](#)
Breadth Requirements: Thought, Belief and Behaviour (2)

CLT141Y1 - Introduction to the Irish Language

Previous Course Number: SMC141Y1
Hours: 48L/24T

This course in Modern Irish Language is designed for learners with no prior knowledge of the language. The course is intended to introduce students to and provide practice in the four language skills: listening, speaking, reading and writing.

Exclusion: [SMC141Y1](#)
Breadth Requirements: Creative and Cultural Representations (1)

CLT240H1 - The Celts in the Ancient and Medieval World

Previous Course Number: SMC240Y1, SMC240H1
Hours: 24L

An introduction to the culture and literature of the Celtic peoples in pre-history and in the Middle Ages.

Exclusion: [SMC240Y1](#), [SMC240H1](#)
Breadth Requirements: Creative and Cultural Representations (1)

CLT241H1 - The Celts in the Modern World

Previous Course Number: SMC241H1

Hours: 24L

An introduction to the culture and literature of the modern Celtic nations from 1600 to the present.

Exclusion: SMC240Y1, SMC241H1

Breadth Requirements: Creative and Cultural Representations (1)

CLT242Y1 - An Introduction to Scottish Gaelic

Previous Course Number: SMC242Y1

Hours: 48L/24T

An introduction to Scottish Gaelic language and culture. Students will master fundamentals of reading, writing, and the basics of grammar and will begin to speak Gaelic. Proverbs, poetry, songs and folktales introduce students to the language, literature and folklore of Gaelic Scotland and immigrant North America. No prior knowledge of the language is required.

Exclusion: SMC242Y1

Breadth Requirements: Creative and Cultural Representations (1)

CLT243Y1 - Modern Welsh

Previous Course Number: SMC243Y1

Hours: 48L/24T

An introductory course intended to provide a basic speaking and reading knowledge of Modern Welsh. Open to students with no prior experience of Welsh.

Exclusion: SMC243Y1

Breadth Requirements: Creative and Cultural Representations (1)

CLT244H1 - Lowland Scots Language and Literature

Hours: 24L/12T

An introduction to Lowland Scots language and literature. Students will acquire fundamentals of reading, writing, grammar and spoken Scots. Poetry, songs and folktales introduce students to the language, literature and folklore of the Scots language, from the Renaissance poets

through to Burns, MacDiarmid and modern artists. No prior knowledge of the language is required.

Breadth Requirements: Creative and Cultural Representations (1)

CLT251H1 - Intermediate Irish Language I

Previous Course Number: SMC251H1

Hours: 24L/12T

This course builds on CLT141Y1 Introduction to the Irish Language. It will provide further expansion of the four language skills: listening, speaking, reading and writing.

Prerequisite: CLT141Y1

Exclusion: SMC251H1

Breadth Requirements: Creative and Cultural Representations (1)

CLT252H1 - Intermediate Irish Language II

Previous Course Number: SMC252H1

Hours: 24L/12T

This course is a continuation of CLT251H1 Intermediate Irish Language I. It will provide further expansion of language skills. We will examine literary texts, both prose and poetry.

Prerequisite: CLT251H1

Exclusion: SMC252H1

Breadth Requirements: Creative and Cultural Representations (1)

CLT331H1 - Advanced Irish Language I

Previous Course Number: SMC331H1

Hours: 24L/12T

An advanced course in the Irish language, this builds on the speaking, listening, reading and writing competencies developed in CLT251H1 and CLT252H1 (Intermediate Irish Language I and II).

Prerequisite: CLT251H1 and CLT252H1

Exclusion: SMC333H1 (Special Topics in Celtic Studies I: Advanced Irish Language), offered in Fall 2018, SMC331H1

Breadth Requirements: Creative and Cultural Representations (1)

CLT332H1 - Advanced Irish Language II

Previous Course Number: SMC332H1

Hours: 24L/12T

An advanced course in the Irish language, this builds on the speaking, listening, reading and writing competencies developed in [CLT331H1](#) (Advanced Irish Language I).

Prerequisite: [CLT331H1](#)

Exclusion: [SMC333H1](#) (Special Topics in Celtic Studies I: Advanced Irish Language), offered in Fall 2018, [SMC332H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CLT333H1 - Special Topics in Celtic Studies I

Previous Course Number: SMC333H1

Hours: 24S

Various topics are taken up each year, the content of which depends on the instructor. Students should check the college web site for details.

Prerequisite: Completion of 4.0 credits

CLT336H1 - Sport in Ireland

Previous Course Number: CLT333H1

Hours: 24L

Sport in Ireland is a course designed to investigate the role sport has had since the inception of the Irish Free State in 1922 up until the present day. The course aims to explore the position of sport at a regional level in Ireland as well as the differences existing between certain sporting organizations at a regional and national level. The course will also determine sport's contribution to the identity of Ireland in its first one hundred years as a nation state.

Prerequisite: Completion of 4.0 credits

Exclusion: [CLT333H1](#) (Special Topics in Celtic Studies I: Sport in Ireland), offered in Fall 2022

Breadth Requirements: Society and its Institutions (3)

CLT337H1 - Early Celtic History 450-1000

Previous Course Number: SMC337H1

Hours: 24L

The history of the insular Celtic nation groups from the post-Roman period to the end of the first millennium, the course will trace settlement history and social organization, the making of Celtic nations, the process of Christianization, the impact of the Vikings, and the rise of paramount kings.

Prerequisite: Completion of 4.0 credits

Exclusion: [SMC337H1](#)

Breadth Requirements: Society and its Institutions (3)

CLT338H1 - The Celtic Nations in the Later Middle Ages 1000-1550

Previous Course Number: SMC338H1

Hours: 24L

Later medieval development of Ireland, Scotland and Wales: development of kingship, trade and urban settlement, arrival and colonizing patterns of the Normans, role of English administration and aggression, resurgence of native elites, development of frontier zones, beginning of the more complete English conquest of Ireland and Wales

Prerequisite: Completion of 4.0 credits

Exclusion: [SMC338H1](#)

Breadth Requirements: Society and its Institutions (3)

CLT339H1 - Northern Ireland: The Troubles 1968-1998

Hours: 24L

This course examines the conflict between Protestants and Catholics in Northern Ireland between the civil rights movement of 1968 and the peace settlement of 1998, with special reference to colonial legacies, ethno-religious hostilities, loyalist and nationalist ideologies, guerrilla warfare, state security and civil liberty, and the peace process.

Prerequisite: 4.0 credits

Breadth Requirements: Society and its Institutions (3)

CLT340H1 - Ireland Transformed, 1948-2020

Hours: 24L

In 1948, Ireland was a rural, socially conservative, deeply religious and economically impoverished country. Today, it is an urban, socially progressive, secular and wealthy society – and one that is experiencing new sets of

problems. This course examines how and why these changes came about, the nature of contemporary Ireland, and the challenges that lie ahead.

Prerequisite: 4.0 credits

Breadth Requirements: Society and its Institutions (3)

CLT341H1 - Global Irish Diaspora

Previous Course Number: SMC341H1

Hours: 24L

Over 70 million people in the world can claim Irish descent. Since the 17th century, Irish people have voluntarily migrated and have been forcibly transported to a variety of global destinations. This course explores the "push and pull" factors that prompted these migrations and focuses on the diasporic communities created by Irish Catholics and Protestants in Great Britain, Canada, the United States, Continental Europe, the Caribbean, Argentina, South Africa, India, Australia, and New Zealand.

Prerequisite: Completion of 4.0 credits

Exclusion: SMC341H1

Recommended Preparation: CLT348H1/ CLT378H1

Breadth Requirements: Society and its Institutions (3)

CLT345H1 - Writing Ireland

Previous Course Number: SMC345H1

Hours: 24L

This course looks at some of the major literary figures of Ireland in the twentieth and twenty-first centuries, writing in both Irish and English. Authors examined may include W. B. Yeats, Patrick Pearse, Nuala Ní Dhomhnaill, Seán Ó Riordáin, Seamus Heaney and Claire Keegan. Through a close reading of poetry, prose and critical texts, students will examine how Ireland's past, present and future are variously figured in its greatest modern literature. All Irish-language works will be read in English translation.

Prerequisite: Completion of 4.0 credits

Exclusion: SMC345H1

Recommended Preparation: CLT241H1

Breadth Requirements: Creative and Cultural Representations (1)

CLT346H1 - Celtic Folklore

Previous Course Number: SMC346H1

Hours: 24L

This course examines the relationship between folklore and national identity in Ireland, Scotland and Wales, with special emphasis on storytelling traditions.

Prerequisite: Completion of 4.0 credits

Exclusion: SMC346H1

Breadth Requirements: Creative and Cultural Representations (1)

CLT347H1 - Traditional Music in Ireland and Scotland

Previous Course Number: SMC347H1

Hours: 24L

From Medieval harp playing to the emergence of reels and jigs during the eighteenth century, this course explores the changes and continuities in traditional music, and its place in contemporary culture.

Prerequisite: Completion of 4.0 credits

Exclusion: SMC347H1

Breadth Requirements: Creative and Cultural Representations (1)

CLT348H1 - Early Modern Ireland

Previous Course Number: SMC348H1

Hours: 24L

This course focuses on Irish history from the early seventeenth century to the Great Famine of the mid nineteenth century. Topics include the Ulster plantation, Catholic resistance, the Penal Laws, the United Irishmen, the Act of Union, Catholic Emancipation and the Famine.

Prerequisite: Completion of 4.0 credits

Exclusion: SMC348H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CLT350H1 - Celtic Spirituality

Previous Course Number: SMC350H1

Hours: 24L

The religious culture of the early and mediaeval Celtic Church as manifested in the material and written record, and its significance for contemporary religious movements. Texts studied include the Patrician dossier, early monastic Rules and Liturgies, selected hagiographical, homiletic, devotional and lyric texts.

Prerequisite: Completion of 4.0 credits

Exclusion: SMC350H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CLT353H1 - The Scottish Witch-Hunt in its European Contexts

Hours: 24L

This course will explore various aspects of witchcraft accusations in Scotland and place them within the European context. A major focus of the course will be exploring the questions that historians have raised about the European witch-hunts and how this has influenced the historiography of the Scottish witch-hunts. The course will also involve several different kinds of primary sources and include discussions of their value and limitations.

Breadth Requirements: Creative and Cultural Representations (1)

CLT374H1 - The Celtic Book

Previous Course Number: SMC374H1

Hours: 24L

A study of the production of manuscripts, books and tracts that played a crucial role in the historical evolution of a national culture or cultures in the Celtic world.

Prerequisite: Completion of 4.0 credits

Exclusion: SMC374H1

Breadth Requirements: Creative and Cultural Representations (1)

CLT378H1 - Ireland Since the Famine

Previous Course Number: SMC378H1

Hours: 24L

This course examines the relationship between nationalism and unionism in post-Famine Ireland, with particular emphasis on the debates over Home Rule, the Irish Revolution and Civil War of 1916-23, the effects of partition, and the Troubles in Northern Ireland.

Prerequisite: 4.0 credits

Exclusion: SMC378H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CLT395Y1 - Independent Study in Celtic Studies

Previous Course Number: SMC395Y1

A research project chosen by the student in consultation with a faculty supervisor and approved by the Program Coordinator. A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Completion of 4.0 credits

CLT396H1 - Independent Study in Celtic Studies

Previous Course Number: SMC396H1

A research project chosen by the student in consultation with a faculty supervisor and approved by the Program Coordinator. A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Completion of 4.0 credits

CLT411H1 - Advanced Topics in Celtic Studies I

Previous Course Number: SMC411H1

Hours: 24S

Various topics are taken up each year, the content of which depends on the instructor. Students should check the [St. Michael's College website](#) for details.

Prerequisite: Completion of 9.0 credits

CLT413H1 - The Irish in Canada

Previous Course Number: SMC413H1

Hours: 24S

This course explores the history of Irish migration and settlement in Canada with a special emphasis on political, social, economic and religious themes.

Prerequisite: Completion of 9.0 credits

Exclusion: SMC413H1

Breadth Requirements: Society and its Institutions (3)

CLT418H1 - Romantic Scotland

Hours: 24L

This course provides an in-depth exploration of the origins and development of Romantic constructions of Scotland – its history, culture, language, and landscape – in literature, theatre, music, historiography, and art. The course will focus in particular on the Romantic movement in Scotland and its relationship to European Romanticism and nationalism. It will also explore the enduring legacy of that movement in more contemporary representations of Scottish identity (both within and outside of its national borders) in the arts and in political discourse. Offered in alternate years.

Prerequisite: 9.0 credits

Recommended Preparation: CLT241H1/ ENG202H1/ ENG203H1/ ENG308Y1

Breadth Requirements: Creative and Cultural Representations (1)

CLT420H1 - Ireland, Race and Empires

Hours: 24S

This course examines the extent to which the Irish can be understood as a colonized and racialized people, and the degree to which they participated in the colonization and racialization of Blacks and Indigenous peoples in the British and American empires. It encompasses debates about whether the Irish were victims of genocidal policies during the Famine, and their role in what one historian calls the “casual genocide” of imperial expansion. It also discusses the character and limitations of anti-colonialism in Irish nationalist discourse, and attitudes of racialized minorities and Indigenous peoples towards the Irish. This course is jointly offered with the graduate course, HIS1441H.

Prerequisite: Completion of 9.0 credits

Exclusion: CLT411H1 ("Ireland, Race & Empires", offered in Fall 2022)

Recommended Preparation: CLT378H1: Ireland Since the Famine

Breadth Requirements: Society and its Institutions (3)

CLT440H1 - Middle Welsh

Previous Course Number: SMC440Y1, SMC440H1

Hours: 24L

Middle Welsh, the native Celtic language of medieval Wales, was for centuries the language in which the Welsh celebrated their medieval princes and ancestral heroes, was the medium for the preservation of native British legend and Welsh law, and was the vehicle for the earliest narratives of Arthur. Students will be introduced to reading and translating Middle Welsh, and by the course's end will have read one complete text of Middle Welsh literature in the original. Students will learn Welsh specifically but will also learn the characteristic linguistic features of a Celtic language. No prior knowledge of Welsh or any other Celtic language is assumed.

Prerequisite: Completion of 9.0 credits or permission of the instructor

Exclusion: SMC440Y1, SMC440H1

Breadth Requirements: Creative and Cultural Representations (1)

CLT441H1 - Introduction to Old Irish

Previous Course Number: SMC441Y1

Hours: 24L

This course will introduce students to Old Irish, the language of Western Europe's earliest vernacular literature. The course will focus on bringing students to a reading knowledge of Classical Old Irish, drawing on the most recent teaching aids and incorporating translation exercises and prepared reading passages from the early literature. The course will also teach the linguistic vocabulary for describing a Celtic language. No prior knowledge of Irish is assumed.

Prerequisite: Completion of 9.0 credits

Exclusion: SMC441Y1

Breadth Requirements: Creative and Cultural Representations (1)

CLT451Y1 - Senior Essay in Celtic Studies

Previous Course Number: SMC451Y1

A scholarly project chosen by the student in consultation with a faculty supervisor and approved by the Program Coordinator. A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits

Christianity and Culture

CHC120H1 - Catholicism in Conversation

Previous Course Number: SMC120H1
Hours: 24L/12T

What is Catholicism, as an idea, as a social movement, as an object of scorn, devotion or delight? What meaning does Catholic tradition have in the contemporary world? This seminar explores these and similar questions through lectures and conversations with diverse scholars—faculty, fellows and friends—of the St. Michael's College community.

Exclusion: SMC103Y1, SMC120H1
Breadth Requirements: Society and its Institutions (3)

CHC130H1 - Playing with Fire: Alchemy, Astrology, and Magic

Hours: 24L/12T

This course offers an historical introduction to alchemy, astrology, and magic, with a focus on the development, defence, condemnation, and progressive marginalization of these controversial pursuits in and around the Christian world(s). Students will learn about such topics as the search for the philosopher's stone, the casting of horoscopes, the design of wondrous machines... and the risks associated with meddling with spirits! Lectures will examine these learned traditions on their own terms, while inviting discussions about their enduring popularity, their connections with the rise of modern science and their reception in popular culture.

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC200H1 - Christianity and the Arts

Previous Course Number: SMC200H1
Hours: 24L/12T

This course introduces students to creative works from throughout the global Christian tradition. The course explores the complex relationships that exist between religious and aesthetic imperatives, between theological and material sources, between beauty and suffering, and between artists and their patrons and audiences.

Exclusion: SMC200H1
Breadth Requirements: Creative and Cultural Representations (1)

CHC203Y1 - Christianity and Society Through the Ages

Previous Course Number: SMC203Y1
Hours: 48L/24T

This course explores the historical engagement of various Christian traditions with the prevailing political, social, and ethnic cultures in the western world and beyond. Students will also examine the development of Christianity as it confronts changes in the symbolic and intellectual universes from antiquity to post-modernity.

Exclusion: SMC203Y1
Breadth Requirements: Society and its Institutions (3), Thought, Belief and Behaviour (2)

CHC215H1 - Varieties of Christian Community

Previous Course Number: SMC215H1
Hours: 24S

Christian history has been characterized by an enduring and fruitful search for forms of religious community. This course surveys some communal attempts to express Christianity, monasticism, forms of common life for clerics, the Mendicants, lay confraternities, religious orders, and contemporary lay movements.

Exclusion: SMC215H1
Breadth Requirements: Society and its Institutions (3)

CHC218H1 - Christianity and Education

Previous Course Number: SMC218H1

Hours: 24L

An exploration of pedagogy and child development theory, with a particular focus on the way Christians have employed these educational techniques historically. Attention will be given to the diversity of institutions and approaches to curriculum development across Christian history.

Exclusion: SMC218H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC232H1 - Christianity and Science

Previous Course Number: SMC232H1

Hours: 24L

This course examines different models of relating Christianity and Science. Beginning with the biblical view on the natural world and moving to the present, the lectures develop a wide range of approaches.

Exclusion: SMC232H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC300H1 - Special Topics in Christianity and Culture I

Hours: 24L

An advanced seminar in Christianity and Culture as determined by the instructor. In some terms this course may require an application. This will be clearly noted in the Timetable.

Prerequisite: 4.0 credits

Recommended Preparation: CHC203Y1/ SMC203Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

JCA302H1 - The Bible and the Big Bang

Hours: 24L/12T

The origin of the Universe is addressed both by current physical cosmology and by religious interpretations of the Bible. This course explores how these approaches to the cosmos's origins differ and how they might be mutually informative. Core concepts in each domain will be

examined and definitions carefully distinguished (e.g., 'nothing', 'cause', 'matter'): topics will include the question of temporal beginnings (scientific theories of spontaneous creation or an eternal universe vis-à-vis the doctrine of creation from nothing) and the problem of cosmic fine tuning (the multiverse vis-à-vis the idea of divine intervention).

Prerequisite: Completion of 4.0 credits

Recommended Preparation: AST101H1/ AST201H1/ AST121H1/ AST221H1/ AST222H1, SMC232H1/ CHC232H1

Breadth Requirements: Thought, Belief and Behaviour (2)

JCR303H1 - Global Christianities

Previous Course Number: CHC303H1/SMC303H1

Hours: 24L/12T

An advanced introduction to the diverse traditions and movements of contemporary Christianity, with special emphasis on the global South. Sample topics include new ecclesial communities, the rise of Pentecostalism and independent churches, liberation and indigenized theologies, and new forms of martyrdom in the 21st century.

Prerequisite: 4.0 credits

Exclusion: CHC303H1, SMC204H1, SMC207H1, SMC209H1, SMC303H1

Recommended Preparation: CHC203Y1, CHC215H1, RLG203H1

Breadth Requirements: Society and its Institutions (3)

CHC304H1 - Christianity, Law and Society

Previous Course Number: SMC304H1

Hours: 24L

An examination of Canon Law; the process by which it came into being, and its impact on contemporary culture. Premises and techniques of ecclesial law-making are compared to those of other systems of legislation. Specific sections of the Code of Canon Law are examined.

Prerequisite: 4.0 credits

Exclusion: SMC304H1

Recommended Preparation: CHC203Y1, CHC215H1

Breadth Requirements: Society and its Institutions (3)

CHC305H1 - Christianity and Popular Culture

Previous Course Number: SMC305H1

Hours: 36L

An examination of both overt and covert representations of Christian ideas in contemporary popular media. We examine the ways in which Christian themes have been appropriated and subverted in mass media, while also examining the innovative ways these themes, such as redemption, sacrifice, vocation, and hope, are presented anew.

Prerequisite: 4.0 credits

Exclusion: SMC305H1

Recommended Preparation: CHC200H1/ CHC367H1

Breadth Requirements: Creative and Cultural Representations (1)

CHC306H1 - The Catechism of the Catholic Church

Previous Course Number: SMC310H1, SMC306H1

Hours: 24L

Introduces students to the Catechism of the Catholic Church (1994) and its antecedents. After an historical survey of religious instruction in the Church, the students will engage in a close reading of selected sections of the Catechism of the Catholic Church.

Prerequisite: 4.0 credits

Exclusion: SMC310H1, SMC306H1

Recommended Preparation: CHC203Y1, CHC215H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC307H1 - Scripture in Christian Tradition

Previous Course Number: SMC307H1

Hours: 24L/12T

The formation and content of the Christian Bible; an introduction to the history of its interpretation and of the role it has played and continues to play in Christian life and culture.

Prerequisite: 4.0 credits

Exclusion: SMC307Y1, SMC307H1

Recommended Preparation: CHC203Y1, CHC215H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC308H1 - Marriage and the Family in the Catholic Tradition

Previous Course Number: SMC308H1

Hours: 24L

A close reading of the Code of Canon Law touching on the themes of marriage and the family; relationship to other fundamental Church statements (e.g. Familiaris Consortio); examination of issues raised by opposition between church teaching and other views.

Prerequisite: 4.0 credits

Exclusion: SMC308H1

Recommended Preparation: CHC203Y1, CHC215H1

Breadth Requirements: Society and its Institutions (3)

CHC309H1 - Christianity and Politics

Previous Course Number: SMC309H1

Hours: 24L/12T

This course explores developments in the relations between the Catholic Church and the states of Western Europe and America from the Enlightenment to the present. Of particular concern is Catholicism's response to the political theories of the Enlightenment, the secularization of the state and social justice issues.

Prerequisite: 4.0 credits

Exclusion: SMC309H1

Recommended Preparation: CHC203Y1, CHC215H1, HIS241H1

Breadth Requirements: Society and its Institutions (3)

CHC311H1 - Why the Church

Previous Course Number: SMC311H1

Hours: 24S

The Catholic Church claims to be the continuation of the event of Christ in history, the guarantor of the authenticity of each person's encounter with Christ, and the means by which His memory may be cultivated. The course examines the reasons for these claims and the forms they have taken.

Prerequisite: 4.0 credits

Exclusion: SMC311H1

Recommended Preparation: CHC200H1/ CHC327H1/ CHC367H1/ CHC368H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC312H1 - Catholicism and Education

Previous Course Number: SMC312H1

Hours: 24S

The Catholic Church has developed a distinctive approach to the pedagogical enterprise. This course explores aspects of this approach by an examination of canonical legislation and other texts published by ecclesiastical authorities and their application in Canada.

Prerequisite: 4.0 credits

Exclusion: SMC312H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC313H1 - Catholic Education in Ontario

Previous Course Number: SMC313H1

Hours: 24L

An historical appraisal of the evolution of Catholic schools, universities, and catechetical education in Ontario. Special emphasis is placed on the evolution of Ontario's separate school system.

Prerequisite: 4.0 credits

Exclusion: SMC313H1

Breadth Requirements: Society and its Institutions (3)

CHC322H1 - Women and Christianity

Previous Course Number: SMC322H1

Hours: 24S

An exploration of what Pope John Paul II, among others, called the "feminine tradition" in Christian life and thought. Possible topics include women's roles in the early church, Marian dogmas and devotions, women mystics and Doctors of the Church, and Christian feminisms and New Feminisms in the contemporary period.

Prerequisite: 4.0 credits

Exclusion: SMC322H1

Recommended Preparation: CHC203Y1/ CHC215H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC327H1 - Ritual and Worship

Previous Course Number: SMC327H1

Hours: 24L/12T

An introduction to Christian ritual and worship, in cross-cultural and ecumenical perspective. Biblical roots, historical development and diverse adaptations of Christian worship in Europe, North America and the global South.

Prerequisite: 4.0 credits

Exclusion: SMC216Y1, SMC327H1

Recommended Preparation: CHC203Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC330H1 - Christ in Christian Tradition

Previous Course Number: SMC330H1

Hours: 24L/12T

Faith in Christ is central to Christianity. This course offers an advanced introduction to classical debates about the person and work of Christ, the modern Quest of the Historical Jesus, and selected feminist, liberationist and indigenized perspectives on Christ from Asia, Africa and Latin America.

Prerequisite: 4.0 credits

Exclusion: SMC330Y1, SMC330H1

Recommended Preparation: CHC203Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC364H1 - The Christian Book

Previous Course Number: SMC364H1

Hours: 24L

An interdisciplinary examination of the Bible as artifact and as an index of culture, art, and language. Topics include: the mediaeval giant Bibles, illuminated and illustrated Bibles, the Gutenberg Bible, The King James Bible, the Bible industry, the Bible online, the Bible as sacred object, sacred language and vernacular.

Prerequisite: 4.0 credits

Exclusion: SMC364H1

Recommended Preparation: CHC200H1/ CHC367H1/ SMC228H1/ SMC229H1

Breadth Requirements: Creative and Cultural Representations (1)

CHC365H1 - Christianity, Art, and Architecture

Previous Course Number: SMC365H1

Hours: 24L/12T

An exploration of visual arts and architecture as mediums for expressing Christian faith. The course will examine notable developments in Christian history, the proliferation of new forms in the contemporary period, and important local works, such as the Donovan Collection and/or the rich legacy of church architecture in the GTA.

Prerequisite: 4.0 credits

Exclusion: SMC365H1

Recommended Preparation: CHC203Y1/ CHC200H1

Breadth Requirements: Creative and Cultural Representations (1)

CHC367H1 - Christianity, Literature, and Theatre

Previous Course Number: SMC201H1, SMC367H1

Hours: 24L

This course introduces students to works of literary and dramatic arts from throughout the global Christian tradition. The course explores the complex relationships that exist between religious, narrative, and performative imperatives; between theological and cultural sources; between authority and experience; and between writers, playwrights, and their readerships and audiences.

Prerequisite: 4.0 credits

Exclusion: SMC201H1, SMC367H1

Recommended Preparation: CHC203Y1, CHC215H1, CHC200H1

Breadth Requirements: Creative and Cultural Representations (1)

CHC368H1 - Varieties of Christian Experience

Previous Course Number: SMC205H1, SMC368H1

Hours: 24L

Exploration of the variety of forms which Christian personal experience has taken in the course of history (martyrdom, mysticism, monasticism, sanctification of ordinary life, etc.) in order to appreciate their variety, complexity, and deep unity.

Prerequisite: 4.0 credits

Exclusion: SMC205H1, SMC368H1

Recommended Preparation: CHC203Y1, CHC215H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC369H1 - Christianity and Music

Previous Course Number: SMC206H1, SMC369H1

Hours: 24L

The various roles given music in Christian tradition and the impact of Christianity on Western music. Case studies from Gregorian chant to the present illustrate major issues (sacred vs. profane, acceptable styles or instruments, text and music, emotion and rationalism) to provide a critical vocabulary applicable to present works. Some background in music is required.

Prerequisite: 4.0 credits

Exclusion: SMC206H1, SMC369H1

Recommended Preparation: CHC203Y1, CHC215H1, CHC200H1

Breadth Requirements: Creative and Cultural Representations (1)

CHC370H1 - The Bible and Biology

Previous Course Number: SMC370H1

Hours: 24L/12T

Episodes and issues in the development of biology, genetics and evolutionary theory in relation to Christian understandings of the natural world, the human person, and God. Possible topics include genetic determinism, mind and intelligence, gender, reproductive technologies, cosmology and ecology.

Prerequisite: 4.0 credits

Exclusion: SMC370H1

Recommended Preparation: CHC203Y1/ CHC232H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC371H1 - Faith and Physics

Previous Course Number: SMC371H1

Hours: 24L

The complex interplay between religious belief, culture, and the emergence of modern physical theory: rise and fall of mechanistic theories, relativity, particle physics and models of the Universe, Big Bang theory and Black Holes, etc.

Prerequisite: 4.0 credits

Exclusion: SMC371H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC372H1 - The Catholic Church in Canada

Previous Course Number: SMC320H1, SMC372H1
Hours: 24L

An exploration of the historical development of Catholic communities and institutions in all regions of Canada since the 16th century. Emphasis placed on themes of mission, church-state relations, ethnicity, belief and practice, social justice, gender, and secularization.

Prerequisite: 4.0 credits

Exclusion: SMC320H1, SMC372H1

Recommended Preparation: CHC203Y1

Breadth Requirements: Society and its Institutions (3)

CHC378H1 - Major Christian Thinkers, up to 1300

Previous Course Number: CHC379H1
Hours: 24L

An advanced introduction to the Christian intellectual tradition through a study of key texts from before 1300. Selected authors discuss a range of religious, intellectual, and cultural issues, from foundational Christian beliefs to the challenges of integrating non-Christian learning into Christian societies, institutions, scholarship, and literature.

Prerequisite: 4.0 credits

Recommended Preparation: CHC203Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC379H1 - Major Christian Thinkers, 1300 to present

Previous Course Number: SMC208Y1, SMC379H1
Hours: 24L

An advanced introduction to the Christian intellectual tradition through a study of key texts from around the year 1300 to the present. Selected authors discuss a range of religious, intellectual, and cultural issues, from their role in the shaping of early modern and modern institutions to the challenge of integrating Christian values and ideals into our postmodern, plural, and global society.

Prerequisite: 4.0 credits

Exclusion: SMC208Y1, SMC379H1

Recommended Preparation: CHC203Y1, CHC215H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC382H1 - Literature and the Christian Child

Previous Course Number: SMC217H1, SMC382H1
Hours: 24L/12T

An exploration of connections between a child's moral development and literature in Christian traditions. We examine literary, historical and philosophical developments appropriate to the child's imagination. The course will include the study of poems, catechetical materials, novels and other texts written for children.

Prerequisite: 4.0 credits

Exclusion: SMC217H1, SMC382H1

Recommended Preparation: CHC203Y1, CHC215H1, CHC200H1

Breadth Requirements: Creative and Cultural Representations (1)

CHC383H1 - God and Geometry

Previous Course Number: SMC233H1, SMC383H1
Hours: 24L

This course engages controversial issues in the natural sciences of importance to Christian faith, with particular emphases on their ancient and the medieval origins and enactments. Examples include: Harmony vs. Chaos, Creation vs. Evolution, Free Will vs. Determinism, Reason vs. Revelation, Miraculous vs. Natural Causation.

Prerequisite: 4.0 credits

Exclusion: SMC233H1, SMC383H1

Recommended Preparation: CHC203Y1, CHC232H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC384H1 - Music and Liturgy

Previous Course Number: SMC363H1, SMC384H1
Hours: 24L

An exploration of the place of music in Christian worship, with a focus on contemporary Eucharist. Examination of the development of liturgico-musical principles and their practical implementation. Topics may include styles and repertoires, singing liturgical texts, hymnody and other forms of congregational singing, choirs and cantors, the use of instruments.

Prerequisite: 4.0 credits

Exclusion: SMC363H1, SMC384H1

Recommended Preparation: CHC203Y1, CHC215H1, CHC369H1, CHC327H1

Breadth Requirements: Creative and Cultural Representations (1)

CHC390Y1 - Independent Studies in Christianity and Culture

Previous Course Number: SMC390Y1

An independent research project to be proposed by the student and supervised by a Christianity and Culture faculty member. A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Completion of 4.0 credits

CHC391H1 - Independent Studies in Christianity and Culture

Previous Course Number: SMC391H1

An independent research project to be proposed by the student and supervised by a Christianity and Culture faculty member. A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Completion of 4.0 credits

CHC400H1 - Advanced Topics in Christianity and Culture I

Hours: 24L

An advanced seminar in Christianity and Culture as determined by the instructor.

Prerequisite: 8.0 credits

Recommended Preparation: [CHC203Y1/ SMC203Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC433Y1 - Independent Studies in Christianity and Culture

Previous Course Number: SMC433Y1

An independent research project to be proposed by the student and supervised by a Christianity and Culture faculty member. A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits

CHC434H1 - Independent Studies in Christianity and Culture

Previous Course Number: SMC434H1

An independent research project to be proposed by the student and supervised by a Christianity and Culture faculty member. A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits

CHC456H1 - Indian Christianity

Previous Course Number: SMC456H1

Hours: 24S

An advanced study of the historical development, major theological writings and contemporary ethnographic studies of diverse Christian traditions in South Asia. Topics to be covered include the legacy of Thomas Christianity, Hindu-Christian dialogue, the Christian ashram movement, liturgical inculturation and religious hybridity.

Prerequisite: 8.0 credits

Exclusion: SMC456H1

Recommended Preparation: CHC203Y1, CHC303H1, RLG203H1 and/or RLG205H1

Breadth Requirements: Thought, Belief and Behaviour (2)

CHC472H1 - Research Seminar in Christianity and Culture

Previous Course Number: SMC472Y1, SMC472H1

Hours: 24S

The seminar provides majors in their final year of study with the opportunity to pursue advanced research projects in Christianity and Culture.

Prerequisite: 8.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

Christianity and Culture: Major Program in Religious Education Courses

CHC471H1 - Internship

Previous Course Number: SMC471H1

Arranged by each student in consultation with faculty, the internship enables teacher candidates to integrate, extend and deepen their learning experiences in a way not otherwise available in the program. A description of the internship, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information is available from the SMC Principal's Office, smc.programs@utoronto.ca. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits

Mediaeval Studies

MST201H1 - Getting Medieval: Myths and Monsters

Hours: 24L/12T

Introduction to the sound, sight, and touch of the distant past, telling the story of the Middle Ages through objects from animal skin parchment to enameled icon. Lectures are complemented by hands-on learning in weekly tutorials featuring text- and narrative-oriented digital methods, along with medieval drama and music performance.

Exclusion: MST200Y1

Breadth Requirements: Creative and Cultural Representations (1)

MST202H1 - Getting Medieval: Place and Space

Hours: 24L/12T

From world maps to tales of pilgrimage, trade, and exploration, from imagined other worlds to historical cityscapes, this course tells the story of the Middle Ages through the places and spaces that defined medieval culture. Lectures are complemented by hands-on learning in weekly tutorials featuring network visualization and digital mapping.

Exclusion: MST200Y1

Breadth Requirements: Creative and Cultural Representations (1)

MST210H1 - The Early Mediaeval Tradition

Previous Course Number: SMC210H1

Hours: 24L/12T

An introduction to the thought and culture of early mediaeval Europe. Students are introduced to important monuments of early mediaeval History, Thought, Literature, and Art. They follow some of the common threads that run through these disciplines and explore chief expressions of early mediaeval life and thought.

Exclusion: SMC210H1

Breadth Requirements: Thought, Belief and Behaviour (2)

MST211H1 - The Middle Ages and the Movies

Previous Course Number: SMC211H1

Hours: 24L/12T

This course examines the ways mediaeval themes have been presented in the cinema over the last century by taking exemplary films from different countries and epochs. The purpose is to explore each on three levels: the mediaeval reality, the subsequent legendary or literary elaboration, and the twentieth-century film rendition, regarded equally as work of art, ideology and economic product.

Exclusion: SMC211H1

Breadth Requirements: Creative and Cultural Representations (1)

MST212H1 - The Later Mediaeval Tradition

Previous Course Number: SMC212H1

Hours: 24L/12T

An introduction to the thought and culture of later mediaeval Europe. Students are introduced to important monuments of later mediaeval History, Thought, Literature, and Art. They follow some of the common threads that run through these disciplines and explore chief expressions of later mediaeval life and thought.

Exclusion: SMC212H1

Breadth Requirements: Thought, Belief and Behaviour (2)

MST213H1 - Dante and the Christian Imagination

Previous Course Number: SMC213H1

Hours: 24L

A study of selections from various works by Dante as an expression of the medieval imagination, viewed against the background of medieval Christian doctrine and psychology and in relation to various contemporary approaches to the study of medieval Christian culture.

Exclusion: SMC213H1

Breadth Requirements: Thought, Belief and Behaviour (2)

MST222H1 - Mediaeval Latin Literature

Previous Course Number: SMC222H1

Hours: 48S

This course studies a selection of Mediaeval Latin prose and poetry. Emphasis is on the linguistic differences between Mediaeval Latin and its classical antecedent, especially in regard to vocabulary, grammar and orthography. A review of Latin grammar is part of the course.

Prerequisite: SMC176Y1/ LAT102H1

Exclusion: SMC222H1

Breadth Requirements: Creative and Cultural Representations (1)

MST226H1 - King Arthur

Previous Course Number: SMC226H1

Hours: 24L

A survey of the Arthurian legends from the earliest Latin histories through selected Welsh, French and German Romances to the English-language classic, *Morte d'Arthur* of Malory. Emphasis will be on reading the primary sources (in translation).

Prerequisite: 5.0 credits

Exclusion: SMC226H1

Breadth Requirements: Creative and Cultural Representations (1)

MST230H1 - The Middle Ages in Modern Life: Games, Television, and the Popular Imagination

Hours: 24L

Modern culture retains a fascination with the middle ages. In many cases, the Mediaeval world or more often ideas about the Mediaeval world, feature in modern entertainment, politics, or literature. This course explores the ways the middle ages have been interpreted and reinterpreted in various aspects of modern culture such as role playing games, videogames, television, literature, and iconography.

Breadth Requirements: Creative and Cultural Representations (1)

MST231H1 - On the Move in Mediaeval Eurasia

Hours: 24L

In this age of constant global travel, it is easy both to forget how much more complicated travel was in earlier periods, and to assume that there was very little of it. In the Mediaeval world, people travelled for work as traders, craftsmen and warriors; they travelled for their spirit as pilgrims; they travelled as migrants and refugees. This course will introduce students to the variety of people on the move in Mediaeval Eurasia, their motives, and the means they used to travel.

Breadth Requirements: Creative and Cultural Representations (1)

MST232H1 - How to Be a Barbarian: Beard, Battles and Belief at the Dawn of the Middle Ages

Hours: 24L

Barbarians have caught the modern popular imagination, and they appear to be much the same: hairy warriors who destroyed civilization. The late antique period (c.300–c.600) was a time of transition and the meetings of several cultures. This course examines the so-called barbarians who entered and soon came to rule the former Roman provinces of western Europe in this period. Our particular focus is the cultural, religious, artistic, and socio-economic aspects of barbarian peoples, and how these intersected with the civilization of Rome.

Breadth Requirements: Society and its Institutions (3)

MST233H1 - Viking Cultures

Hours: 24L

Everyone thinks they know who the Vikings were. Like many aspects of the middle ages popular in modern life, there is much that is inaccurate about this picture of the Vikings. This course explores how Vikings lived—what sorts of things they did for a living, how they amused and entertained themselves, and what they thought—and moves on to consider their rituals of death and their notions of the afterlife. It will be based both on reading a variety of texts produced by and about the Vikings, as well as looking at various objects they produced that have survived.

Breadth Requirements: Creative and Cultural Representations (1)

MST234H1 - Women's Lives in Mediaeval Europe

Hours: 24L

Using an interdisciplinary lens, this course explores the experiences of Mediaeval women. Some attention will be given to subjects such as the idea of the Mediaeval feminine, holiness and femininity, and appropriate feminine behaviour. At the same time, we will look at the social and cultural roles of women in society for instance the gendered ideals of marriage, guild structures, and childrearing.

Breadth Requirements: Thought, Belief and Behaviour (2)

MST242H1 - Mediaeval Mythologies and Methodologies

Hours: 24L

The idea of the 'middle ages' is pervasive in Western thought, but only some of what is 'traditional' actually happened. This course introduces various interpretations, constrictions, and re-creations. Our analysis will draw on literary texts and their various interdisciplinary interpretations and applications.

Breadth Requirements: Creative and Cultural Representations (1)

MST301H1 - Special Topics in Mediaeval Studies

Hours: 24L

A senior-level special topics seminar in Mediaeval Studies as determined by the instructor.

Prerequisite: Completion of 9.0 credits

Recommended Preparation: [MST210H1](#), [MST212H1](#)

MST323H1 - Mediaeval Latin Prose

Previous Course Number: SMC323H1

Hours: 48S

Comprising an immersion in Mediaeval Latin prose texts, this course gives students a deepened acquaintance with the linguistic features of Mediaeval Latin, as well as with its literature, and generic and stylistic conventions. A solid foundation in basic Latin morphology, syntax and vocabulary is assumed.

Prerequisite: [LAT202H1](#)/ [MST222H1](#)

Exclusion: [SMC323H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

MST324H1 - The Study of the Bible in the Middle Ages

Previous Course Number: SMC324H1

Hours: 24L/12T

This course explores mediaeval biblical commentary and the various approaches taken by the exegetes to uncover the secrets of the sacred page, for instance through the four senses of Scripture: history, allegory, tropology, and anagogy.

Exclusion: [SMC324H1](#)

Recommended Preparation: [MST210H1](#)/ [MST212H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

MST326H1 - Mediaeval Music: thought and practice

Previous Course Number: SMC326H1

Hours: 24L

An introduction to musical theory and practice in the middle ages: sacred and secular music, monophony and polyphony, performers and patrons, notation and orality. No prior background in music or ability to read music is required.

Prerequisite: [CHC203Y1](#)/ [SMC206H1](#)/ [MST210H1](#)/ [MST212H1](#)/ [MUS111H1](#)

Exclusion: [SMC326H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

MST328H1 - Mediaeval Latin Poetry

Previous Course Number: SMC328H1

Hours: 48L

This course studies selections from the rich variety of Mediaeval Latin poetry, rhymed as well as rhythmic, and provides a survey of prosody and metrics. A solid foundation in basic Latin morphology, syntax and vocabulary is assumed.

Prerequisite: [MST222H1](#)/ [LAT202H1](#)

Exclusion: [SMC328H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

MST340H1 - Mediaeval Genders and Sexualities

Hours: 24L

This course explores ideas of gender and sexuality in the mediaeval world. In particular it examines the links between the two throughout history, the social religious, and literary ideas of marriage and reproduction. Through close readings of primary sources including literature, canon law, penitentials, sermons, and medical treatises, students will explore the boundaries between the worlds of biology and culture.

Prerequisite: Completion of 9.0 credits

Recommended Preparation: [MST210H1](#), [MST212H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

MST341H1 - Middle Ages by the Numbers

Hours: 24L

Numbers and their uses often appear to be absolute fact: a thousand dollars is exactly that, not more or less; and if you weigh fifty kilos, that's what you weigh. But the use and meaning of numbers—for recording and counting dates, money, weights, distances, and myriad other functions—is not, in fact, devoid of cultural, historical, and political context. Mediaeval Europe provided a bewildering range of calendric systems, currencies, systems of measurement, and numerical symbolism was much used in art, music, religious thought, and literature. This course provides an introduction to the various uses of numbers in this period across different regions and cultural contexts.

Prerequisite: Completion of 9.0 credits

Recommended Preparation: [MST210H1](#), [MST212H1](#)

Breadth Requirements: Society and its Institutions (3)

MST358H1 - The Mediaeval Book

Previous Course Number: SMC358H1

Hours: 24S

This course examines the most salient aspects of mediaeval manuscript culture. We will study, first, how the parchment for books was folded, pricked, ruled and bound, and second, what scripts were employed in the different codices. We will also examine the various types of books made in the Middle Ages and the challenges they pose to modern scholars.

Exclusion: SMC358H1

Recommended Preparation: LAT102H1, MST210H1/
MST212H1 or a course in mediaeval history.

Breadth Requirements: Creative and Cultural Representations (1)

MST359H1 - Mediaeval Theology

Previous Course Number: SMC359H1

Hours: 24L

An introduction to the discipline of theology as taught in the mediaeval schools. Building on a basic knowledge of Christian scriptures and of philosophical argument, this course will offer an organic exposition of mediaeval theology, together with an introduction into the scientific method of theological investigation as practised in the Middle ages.

Exclusion: SMC359H1

Recommended Preparation: MST210H1/ MST212H1

Breadth Requirements: Thought, Belief and Behaviour (2)

MST361H1 - Mediaeval Law

Previous Course Number: SMC361H1

Hours: 24S

Mediaeval jurisprudence combines the high technical quality of Roman law with the requirements of Christianity. The seminar provides an overview of the development of mediaeval learned jurisprudence; select texts from Roman and canon law, with their glosses, are read in order to explore more specifically the methods and concerns of mediaeval jurists.

Exclusion: SMC361H1

Recommended Preparation: HIS220Y1/ MST210H1/
MST212H1

Breadth Requirements: Thought, Belief and Behaviour (2)

MST400Y1 - Languages and Methods for Medieval Studies

Hours: 60S

In this course, students will have an opportunity to take a graduate Latin seminar at the Centre for Medieval Studies, one of the world's premier research institutions in the field. The instructor, the SMC program coordinator, and the student will determine a method of assessment appropriate for an undergraduate student while still pushing the student's boundaries to be able to participate

in a graduate seminar along with MA and PhD students. Course forms are available from the SMC Principal's Office at smc.programs@utoronto.ca. Completed forms should be submitted by the first day of classes in September.

Prerequisite: 1.0 LAT credit at the 300-level or 1.0 credit from MST222H1, MST323H1, MST328H1

Breadth Requirements: Creative and Cultural Representations (1)

MST401H1 - Advanced Topics in Mediaeval Studies

Hours: 24L

In this course, students will have an opportunity to take a graduate seminar at the Centre for Medieval Studies, one of the world's premier research institutions in the field. Depending on the nature of the seminar, the instructor, the SMC program coordinator, and the student will determine a method of assessment appropriate for an undergraduate student while still pushing the student's boundaries to be able to participate in weekly discussions in a graduate seminar along with MA and PhD students. Course forms are available from the SMC Principal's Office, smc.programs@utoronto.ca.

Prerequisite: MST210H1, MST212H1, 9.0 credits

Breadth Requirements: Society and its Institutions (3)

MST406H1 - Mediaeval Seminar II

Previous Course Number: SMC406H1

Hours: 12T/24S

A fourth-year seminar on a topic to be determined annually. Refer to the [St. Michael's College website](http://www.stmichaelscollege.ca) for more information.

Prerequisite: 1.0 credit in MST courses

Recommended Preparation: MST210H1/ MST212H1 or other mediaeval courses

MST407Y1 - Mediaeval Seminar I

Previous Course Number: SMC407Y1

Hours: 24T/48S

A fourth-year seminar on a topic to be determined annually. Refer to the [St. Michael's College website](http://www.stmichaelscollege.ca) for more information.

Prerequisite: 1.0 credit in MST courses

Recommended Preparation: MST210H1/ MST212H1 or other mediaeval courses

MST435H1 - Independent Studies in Mediaeval Studies

Previous Course Number: SMC435H1

An independent research project to be proposed by the student and supervised by a member of faculty affiliated with the Mediaeval Studies Program. A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits

MST436H1 - Advanced Latin Seminar

Previous Course Number: SMC436H1

Hours: 24S

This seminar is devoted to the in-depth study of one or a number of related Mediaeval Latin text(s) in their linguistic, historical, and intellectual context. Readings in the original Latin will be discussed and commented upon by students.

Prerequisite: MST323H1/ MST328H1

Recommended Preparation: MST210H1/ MST212H1

Breadth Requirements: Creative and Cultural Representations (1)

MST442H1 - Mediaeval Skills and Methodologies

Hours: 24L

This course focuses on the skills and tools necessary for graduate research in mediaeval studies. It introduces palaeography, codicology, and diplomatics, as well as other lexical and conceptual tools needed for dealing with mediaeval primary sources.

Prerequisite: MST210H1, MST212H1, 9.0 credits

Recommended Preparation: MST242H1

Breadth Requirements: Society and its Institutions (3)

MST490Y1 - Senior Essay in Mediaeval Studies

Previous Course Number: SMC490Y1

Hours: 24S

A scholarly project chosen by the student in consultation with a faculty member and approved by the Program Coordinator. A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the Program Coordinator and Director. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. The project will be accompanied by a research seminar component. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

Other SMC Courses

SMC299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

SMC380H1 - St. Michael's College Independent Studies

An opportunity for students to pursue an independent course of study not otherwise available in the Faculty of Arts and Science.

A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the SMC Principal. More information and application forms

are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits.

SMC381Y1 - St. Michael's College Independent Studies

An opportunity for students to pursue an independent course of study not otherwise available in the Faculty of Arts and Science.

A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the SMC Principal. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits

SMC399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

SMC457H1 - Directed Research

Hours: 24S

Based on a professor's research project currently in progress, this course will enable an undergraduate student to play a useful role in the project while receiving hands-on training in research.

A full proposal including a working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the SMC Principal.

More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits

SMC480H1 - St. Michael's College Independent Studies

An opportunity for students to pursue an independent course of study not otherwise available in the Faculty of Arts and Science.

A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the SMC Principal. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits

SMC481Y1 - St. Michael's College Independent Studies

An opportunity for students to pursue an independent course of study not otherwise available in the Faculty of Arts and Science.

A full proposal including a course description, working bibliography, marking scheme, and approval from your academic supervisor must be submitted for approval by the SMC Principal. More information and application forms are available at <https://stmikes.utoronto.ca/smc-ind-study-form> or from the SMC Principal's Office, smc.programs@utoronto.ca. Completed forms must be submitted to the Principal's Office by the first day of classes in September/May for F courses, or January/July for S courses. Meeting times are determined in consultation with your supervisor, and may be in person or online as appropriate. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits

Mark S. Bonham Centre for Sexual Diversity Studies

Faculty List

Professor & Program Director

D. Seidler, MA, PhD

Associate Professor

P. Keilty, MA, PhD

Assistant Professor

J. Moreau, MA, PhD

Associate Professor, Teaching Stream

S. Rayter, MA, PhD

Assistant Professor, Teaching Stream & Undergraduate Coordinator

N. Minai, PhD

Introduction

The Sexual Diversity Studies program (Specialist, Major, Minor) enables students to explore, analyze, and challenge the ways in which sexuality shapes people's lives in both local and global contexts. The program provides vibrant interdisciplinary scholarship and academic learning on the historical and contemporary formations of sexual practices at the intersections of race, class, gender, disability, and citizenship status, among other social relations and processes. Our courses are designed to foster critical conversations of queer and normative sexualities; the formation of sexual, racial, and gender, and gender-non-conforming personhood; and the role of sexuality in culture and politics both in North America and transnationally.

Enquiries: sexual.diversity@utoronto.ca

Website: <https://sds.utoronto.ca/>

Sexual Diversity Studies Programs

Sexual Diversity Studies Specialist (Arts Program) - ASSPE1240

The Sexual Diversity Studies program (Specialist, Major, Minor) enables students to explore, analyze, and challenge the ways in which sexuality shapes people's lives in both local and global contexts. The program provides vibrant interdisciplinary scholarship and academic learning on the historical and contemporary formations of sexual practices at the intersections of race, class, gender, disability, and citizenship status, among other social relations and processes. Our courses are designed to foster critical conversations of queer and normative sexualities; the formation of sexual, racial, and gender, and gender-non-conforming personhood; and the role of sexuality in culture and politics both in North America and transnationally.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10.0 credits, including 4.0 credits at the 300+ level, 1.0 credit of which must be at the 400-level.)

1. One course from: [SDS199H1](#), [WGS160Y1](#), [NEW240H1](#)/ [CSE240H1](#), or [SOC209H1](#). Students may substitute with another introductory course that emphasizes intersectionality of sexuality, with the approval of the Director or Undergraduate Director.

2. SDS Foundational Courses (1.5 credits):

- [SDS255H1](#): Histories of Sexuality
- [SDS256H1](#): Methods in Sexual Diversity Studies
- [SDS355H1](#): Theories of Sexuality

3. Thematic Clusters (3.0 credits): 1.0 credit from each of the three Thematic Clusters.

- Politics & Policy
[JSU237H1](#), [SDS345H1](#), [SDS365H1](#), [JPS378H1](#),
[SDS378H1](#), [JPS315H1](#), [SDS425H1](#)
- Formations & Practices
[JSR312H1](#), [SDS377H1](#), [SDS380H1](#), [SDS381H1](#),
[SDS382H1](#), [SDS385H1](#), [JNS450H1](#), [SDS465H1](#)

- Media & Aesthetics
CIN336H1, ENG273Y1, JSU325H1, SDS346H1,
SDS279H1, SDS470H1, SDS478H1

4. Capstone (1.0 credit): SDS460Y1

5. Other Electives (3.5-4.0 credits): Remaining credits selected from the SDS Electives Group

ANT441H1, ANT456H1, ANT474H1, CAS360H1,
CIN213H1, CIN336H1, CLA319H1, CRI380H1,
EAS236H1, ENG273Y1, GGR456H1, HIS417Y1,
ITA315H1, ITA332H1, JNH350H1, JNS450H1,
JPS315H1, JPS378H1, JSU237H1, JSU325H1,
NEW240H1/ CSE240H1, NEW241Y1/ CSE241Y1,
NEW344H1/ CSE344H1, NMC357H1, NMC358H1,
PHL243H1, PHS300H1, POL377H1, PSY323H1,
RLG235H1, RLG311H1, RLG312H1, RLG313H1,
SDS199H1, SDS255H1, SDS256H1, SDS279H1,
SDS345H1, SDS346H1, SDS355H1, SDS365H1,
SDS375H1, SDS376H1, SDS377H1, SDS378H1,
SDS380H1, SDS381H1, SDS382H1, SDS385H1,
SDS425H1, SDS455H1, SDS456Y1, SDS458H1,
SDS459Y1, SDS460Y1, SDS465H1, SDS470H1,
SDS478H1, SDS485H1, SDS490Y1, SOC209H1,
SOC309H1, VIC343H1/ REN343H1, WGS160Y1,
WGS275H1, WGS374H1, WGS480H1, WGS481H1,
WGS369H1, WGS374H1

Other courses, such as Special Topics courses in other Departments or Programs, may be approved by the Director or Undergraduate Director on an individual basis. Students are responsible for checking co- and prerequisites for courses from the SDS Electives Group.

Sexual Diversity Studies Major (Arts Program) - ASMAJ1240

The Sexual Diversity Studies program (Specialist, Major, Minor) enables students to explore, analyze, and challenge the ways in which sexuality shapes people's lives in both local and global contexts. The program provides vibrant interdisciplinary scholarship and academic learning on the historical and contemporary formations of sexual practices at the intersections of race, class, gender, disability, and citizenship status, among other social relations and processes. Our courses are designed to foster critical conversations of queer and normative sexualities; the formation of sexual, racial, and gender, and gender-non-conforming personhood; and the role of sexuality in culture and politics both in North America and transnationally.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(6.0 credits including 2.5 SDS credits at the 300+ level, 1.0 credit of which must be at the 400-level)

1. One course from: SDS199H1, WGS160Y1, NEW240H1/ CSE240H1, or SOC209H1. Students may substitute with another introductory course that emphasizes intersectionality of sexuality, with the approval of the Director or Undergraduate Director.

2. 1.0 credit from the SDS Foundational Courses:

- SDS255H1: Histories of Sexuality
- SDS256H1: Methods in Sexual Diversity Studies
- SDS355H1: Theories of Sexuality

3. Thematic Clusters (1.5 credits): 0.5 credit from each of the three Thematic Clusters.

- Politics & Policy
JSU237H1, SDS345H1, SDS365H1, JPS378H1,
SDS378H1, JPS315H1, SDS425H1
- Formations & Practices
JSR312H1, SDS377H1, SDS380H1, SDS381H1,
SDS382H1, SDS385H1, JNS450H1, SDS465H1
- Media & Aesthetics
CIN336H1, ENG273Y1, JSU325H1, SDS346H1,
SDS279H1, SDS470H1, SDS478H1

4. Capstone requirement (a minimum of one 0.5 credit from the following list):

All 400-level SDS and JNS courses.

5. Other Electives (1.5-2.5 credits): Remaining credits from the SDS Electives Group.

ANT441H1, ANT456H1, ANT474H1, CAS360H1,
CIN213H1, CIN336H1, CLA319H1, CRI380H1,
EAS236H1, ENG273Y1, GGR456H1, HIS417Y1,
ITA315H1, ITA332H1, JNH350H1, JNS450H1,
JPS315H1, JPS378H1, JSU237H1, JSU325H1,
NEW240H1/ CSE240H1, NEW241Y1/ CSE241Y1,
NEW344H1/ CSE344H1, NMC357H1, NMC358H1,
PHL243H1, PHS300H1, POL377H1, PSY323H1,
RLG235H1, RLG311H1, RLG312H1, RLG313H1,
SDS199H1, SDS255H1, SDS256H1, SDS279H1,
SDS345H1, SDS346H1, SDS355H1, SDS365H1,
SDS375H1, SDS376H1, SDS377H1, SDS378H1,
SDS380H1, SDS381H1, SDS382H1, SDS385H1,
SDS425H1, SDS455H1, SDS456Y1, SDS458H1,
SDS459Y1, SDS460Y1, SDS465H1, SDS470H1,
SDS478H1, SDS485H1, SDS490Y1, SOC209H1,
SOC309H1, VIC343H1/ REN343H1, WGS160Y1,
WGS275H1, WGS374H1, WGS480H1, WGS481H1,
WGS369H1, WGS374H1

Other courses, such as Special Topics courses in other Departments or Programs, may be approved by the Director or Undergraduate Director on an individual basis.

Students are responsible for checking co- and pre-requisites for courses from the SDS Electives Group.

Sexual Diversity Studies Minor (Arts Program) - ASMIN1240

The Sexual Diversity Studies program (Specialist, Major, Minor) enables students to explore, analyze, and challenge the ways in which sexuality shapes people's lives in both local and global contexts. The program provides vibrant interdisciplinary scholarship and academic learning on the historical and contemporary formations of sexual practices at the intersections of race, class, gender, disability, and citizenship status, among other social relations and processes. Our courses are designed to foster critical conversations of queer and normative sexualities; the formation of sexual, racial, and gender, and gender-non-conforming personhood; and the role of sexuality in culture and politics both in North America and transnationally.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

1. 0.5 credit from SDS Foundational Courses: [SDS255H1](#), [SDS256H1](#), [SDS355H1](#).

2. Thematic Clusters (1.5 credits): 0.5 credit from each of the three Thematic Clusters. May substitute a 0.5 credit in this requirement from the list of Capstone courses (all 400-level SDS and JNS courses).

- Politics & Policy
[JSU237H1](#), [SDS345H1](#), [SDS365H1](#), [JPS378H1](#),
[SDS378H1](#), [JPS315H1](#), [SDS425H1](#)

- Formations & Practices
[JSR312H1](#), [SDS377H1](#), [SDS380H1](#), [SDS381H1](#),
[SDS382H1](#), [SDS385H1](#), [JNS450H1](#), [SDS465H1](#)
- Media & Aesthetics
[CIN336H1](#), [ENG273Y1](#), [JSU325H1](#), [SDS346H1](#),
[SDS279H1](#), [SDS470H1](#), [SDS478H1](#)

3. Other Electives (2.0 credits): Remaining credits selected from the SDS Electives Group

[ANT441H1](#), [ANT456H1](#), [ANT474H1](#), [CAS360H1](#),
[CIN213H1](#), [CIN336H1](#), [CLA319H1](#), [CRI380H1](#),
[ENG273Y1](#), [GGR456H1](#), [HIS417Y1](#), [ITA315H1](#),
[ITA332H1](#), [JNH350H1](#), [JNS450H1](#), [JPS315H1](#),
[JPS378H1](#), [JSU237H1](#), [JSU325H1](#), [NEW240H1](#)/
[CSE240H1](#), [NEW241Y1](#)/[CSE241Y1](#), [NEW344H1](#)/
[CSE344H1](#), [NMC357H1](#), [NMC358H1](#), [PHL243H1](#),
[PHS300H1](#), [POL377H1](#), [PSY323H1](#), [RLG235H1](#),
[RLG311H1](#), [RLG312H1](#), [RLG313H1](#), [SDS199H1](#),
[SDS255H1](#), [SDS256H1](#), [SDS279H1](#), [SDS345H1](#),
[SDS346H1](#), [SDS355H1](#), [SDS365H1](#), [SDS375H1](#),
[SDS376H1](#), [SDS377H1](#), [SDS378H1](#), [SDS380H1](#),
[SDS381H1](#), [SDS382H1](#), [SDS385H1](#), [SDS425H1](#),
[SDS455H1](#), [SDS456Y1](#), [SDS458H1](#), [SDS459Y1](#),
[SDS460Y1](#), [SDS465H1](#), [SDS470H1](#), [SDS478H1](#),
[SDS485H1](#), [SDS490Y1](#), [SOC209H1](#), [SOC309H1](#),
[VIC343H1](#)/[REN343H1](#), [WGS160Y1](#), [WGS275H1](#),
[WGS374H1](#), [WGS480H1](#), [WGS481H1](#), [WGS369H1](#),
[WGS374H1](#)

Other courses, such as Special Topics courses in other Departments or Programs, may be approved by the Director or Undergraduate Director on an individual basis. Students are responsible for checking co- and pre-requisites for courses from the SDS Electives Group.

Note: Effective Fall 2021, courses associated with New College's Critical Studies in Equity and Solidarity program will have the new "CSE" designator. In addition, courses associated with Victoria College's Renaissance Studies program will have the new "REN" designator.

Students who do not meet stated course prerequisites can contact the program office to inquire further.

Sexual Diversity Studies Courses

SDS199H1 - Sexuality at the Intersections

Hours: 24L

This First-Year Foundations seminar will explore sexuality at the intersections of race, gender, class, disability, citizenship status, and geography, among other social relations and processes as a foundational practice in Sexual Diversity Studies. In an intimate seminar setting, students will develop reading, writing, and presentation skills necessary for engaging in Sexual Diversity Studies across a wide array of disciplinary traditions. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

JSU237H1 - Introduction to HIV/AIDS: Health, Sexuality and Gender

Hours: 24L

A critical examination of the HIV/AIDS global pandemic from a multidisciplinary perspective and with an emphasis on sexuality. The course examines the basic biology of HIV/AIDS and then covers social, historical, political, cultural, gender, and public health aspects of HIV/AIDS. Attention is given to the distinct features of vulnerable and marginalized populations, prevention, treatment, drug development, and access to medicines.

JSU237H1 is particularly intended for students in the Health Studies and/or Sexual Diversity Studies programs.

Breadth Requirements: Society and its Institutions (3)

SDS246H1 - Queer Digital Media Studies

Previous Course Number: SDS346H1

Hours: 24L

What does sexuality have to do with digital technologies and cultures? What could queer theory tell us about digital archives, data infrastructure, and histories of technology? How do race and sexuality shape our experiences of digital cultures and what do the histories of colonialism have to do with digital design and networks? This course considers queer and feminist perspectives and approaches to the study of digital media including social networks, digital archives, data infrastructures, participatory media, and digital activism. Drawing from queer digital studies, feminist media studies, digital humanities, Indigenous and postcolonial data studies, this course asks how the politics of sexuality, race, and gender shape our digital lives in the 21st century.

Exclusion: SDS346H1

Recommended Preparation: DHU236H1

Breadth Requirements: Creative and Cultural Representations (1)

SDS255H1 - Histories of Sexuality

Hours: 24L/12T

An interdisciplinary examination of sexuality across cultures and periods. How are sexualities represented? How are they suppressed or celebrated? How and why are they labeled as straight, gay, lesbian, bisexual, queer, or perverse? How do sexualities change with race/ethnicity, class, gender, and geographies?

Breadth Requirements: Society and its Institutions (3)

SDS256H1 - Methods in Queer and Trans Studies

Hours: 24L/12T

This course examines a variety of methodological approaches used in humanities and humanist social sciences concerning sexuality and gendered diversity. Students will explore some of the popular methods in sexuality studies including ethnography, archival research, visual cultural studies, oral history, and media and discourse analysis.

Breadth Requirements: Society and its Institutions (3)

SDS279H1 - Queer Popular Culture

Previous Course Number: SDS379H1

Hours: 24L

This introductory course examines the critical relationship between popular culture and queer sexualities in historical and contemporary contexts. The course will draw upon literature from performance studies, media studies, and queer of colour cultural productions. Students will engage with a range of queer public cultures and arts, including drag performance, queer musics, social media networks, and popular media.

Exclusion: SDS379H1

Recommended Preparation: Introductory course in Sexual Diversity Studies, Women and Gender Studies, or Equity Studies

Breadth Requirements: Creative and Cultural Representations (1)

JSR312H1 - Queer Religion and Religiosities

Hours: 24L

This course will introduce students to key terms, theories, and debates in Queer and Religious Studies and to the history of queer identities as they are expressed within various religious traditions, texts, and communities. It asks how dominant heteronormative discourses on gender and sexuality are adhered to, legitimized, negotiated, and contested within various religious traditions. The course will also allow students to interrogate how power and power relationships are shaped by sex, gender, sexuality, race, ethnicity, class, age, and ability in the world of religion.

Prerequisite: Completion of 4.0 credits including a 0.5 credit in SDS/ RLG

Breadth Requirements: Creative and Cultural Representations (1)

JPS315H1 - LGBTQ Politics

Hours: 24L

This is an interdisciplinary course examining the development of the Lesbian, Gay, Bisexual, Transgender and Queer (LGBTQ) movement and its interaction with the state in the US and Canada. *(Given by the Department of Political Science and the Sexual Diversity Studies Program)*

Prerequisite: SDS255H1/ SDS256H1/ UNI255H1/ UNI256H1/1.0 credit on the politics of 20th century Europe, U.S., or Canada/1.0 credit on gender or sexuality/permission of the instructor

Exclusion: JPU315H1

Breadth Requirements: Society and its Institutions (3)

JPS316H1 - Indigenous Feminist and Queer Theories

Hours: 24L

This course explores Indigenous feminist and queer political thought. We survey comparative political theories developed by scholars in the field of Indigenous, gender, and feminist studies. Charting key developments in the field, the course investigates unique and innovative ideas about affect, decolonization, erotics, utopia, and much more. *(Given by the Department of Political Science and the Sexual Diversity Studies Program)*

Prerequisite: 1.0 credit in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA/ SDS, or 0.5 in POL/ JPA/ JPF/ JPI/ JPR/ JPS/ JRA and 0.5 in SDS

Exclusion: POL377H1 Topics in Comparative Politics I (*Indigenous Feminist and Queer Theories*) taken in Winter 2020 (LEC0101), Winter 2021 (LEC0101), Winter 2022 (LEC0201)

Recommended Preparation: POL195H1 (First-Year Foundation Seminar – *Settler Colonialism and Enduring Indigeneity*), JPI201H1, INS201Y1

Breadth Requirements: Society and its Institutions (3)

JSU325H1 - Queerly Canadian

Hours: 36L

This course focuses on Canadian literary and artistic productions that challenge prevailing notions of nationality

and sexuality, exploring not only how artists struggle with that ongoing Canadian thematic of being and belonging, but also celebrate pleasure and desire as a way of imagining and articulating an alternative national politics.

Prerequisite: SDS255H1/ SDS256H1/ CDN267H1/ CDN268H1. Students who do not meet the prerequisites are encouraged to contact the Department.

Breadth Requirements: Creative and Cultural Representations (1)

SDS345H1 - Sex and the Epidemic: Social Work, HIV, and Human Sexuality

Hours: 36L

HIV has forever changed the way human beings understand sexuality. Through a social justice lens, this course examines the nature of community norms, laws, popular media, and the academy to explore how the epidemic has impacted the provision of social services in relation to the diversity of human sexuality.

Prerequisite: 0.5 credit in SDS

Recommended Preparation: JSU237H1

Breadth Requirements: Society and its Institutions (3)

SDS355H1 - Theories of Sexuality

Hours: 24L

This course introduces students to key theories of sexuality and sexual diversity. The main goal is to create a framework for understanding sexuality at its intersections with race, gender, class, disability, citizenship status, and geography among other social relations and processes at an advanced level. Closely tracing sexuality's intersections, course readings will draw upon critical race theory, postcolonial critique and decolonizing movements, women of colour feminisms, trans studies, and transnational sexuality and gender studies.

Prerequisite: 4.0 credits

Recommended Preparation: Some coursework in intersectionality of gender or sexuality

Breadth Requirements: Society and its Institutions (3)

SDS365H1 - Sexuality and Law

Hours: 24L

The course explores the legal regulation of sexuality. How does law understand, constitute and regulate sex, sexuality and sexual diversity? It will consider the role of different types of regulation, including criminal law, family

law and constitutional law, and explore issues ranging from sex work and pornography to same sex marriage to transgender discrimination.

Prerequisite: 0.5 credit in SDS

Breadth Requirements: Society and its Institutions (3)

SDS375H1 - Special Topics in Sexual Diversity Studies A

Hours: 24L

Topics vary from year to year depending on instructor. This seminar is intended to expose students in the Sexual Diversity Studies program to topics that may not be covered by permanent university courses.

Prerequisite: 0.5 credit in SDS

SDS376H1 - Special Topics in Sexual Diversity Studies B

Hours: 24L

Topics vary from year to year depending on instructor. This seminar is intended to expose students in the Sexual Diversity Studies program to topics that may not be covered by permanent university courses.

Prerequisite: 0.5 credit in SDS

SDS377H1 - Lesbian Studies: Identity/Theory/Culture

Hours: 24L

This multidisciplinary course examines multiple lesbian identities that have varied in time and place. The course will pose such questions as: What does lesbian mean? Why have changes occurred in meaning? How has the identity of lesbian been culturally represented and politically expressed in various social and political contexts? It will also take up contemporary theoretical, cultural, and political understandings of lesbianism.

Prerequisite: 0.5 credit in SDS

Breadth Requirements: Society and its Institutions (3)

SDS378H1 - Queer Youth Studies in Education

Hours: 24L

Experiences of queer youth are explored in various education settings through academic research, personal essays, and visual and performing arts to investigate how queer youth define themselves, what they are learning, the curriculum and pedagogy used in the learning process and the possibilities of said learning for social change, individual and community well-being.

Prerequisite: 0.5 credit in SDS

Breadth Requirements: Society and its Institutions (3)

JPS378H1 - Sex and the State

Hours: 24L

What role have sex and sexuality played in the formation of the modern nation State? How has the State regulated sex? This course explores these questions with a theoretical focus on biopolitics. We will proceed in two parts. First, we engage Foucault's *History of Sexuality* and its reception by postcolonial theorists, focusing on questions of state building. The second part of the course shifts examination from State formation to contemporary forms of sexual regulation by the State. This includes maintenance of the public/private divide, citizenship law and nationalism, administrative violence and the prison industrial complex, and neoliberalism and BDSM. By the end of the course, students are able to apply core theoretical concepts and identify forms of contemporary sexual regulation in a variety of Western and non-Western contexts.

(Given by the Department of Political Science and the Mark S. Bonham Centre for Sexual Diversity Studies.)

Prerequisite: A combined minimum of 1.0 credit from POL and/or SDS courses

Exclusion: POL378H1 (Topics in Comparative Politics II: Sex and the State), offered in Fall 2017 and Fall 2018; SDS375H1 (Special Topics in Sexual Diversity Studies A: Sex and the State), offered in Fall 2017 and Fall 2018

Breadth Requirements: Society and its Institutions (3)

SDS380H1 - Sexual Diversity in Transnational Perspective

Hours: 24L

An exploration of LGBTQ rights and changes in social and cultural responses to sexual diversity in varied regional, national, and cultural contexts, potentially including Africa, Latin America, South and East Asia, and Eastern Europe. The role of transnational linkages and networks will also be considered in effecting change.

Prerequisite: 0.5 credit in SDS

Breadth Requirements: Society and its Institutions (3)

indigenous culture and history in Canada/US

Breadth Requirements: Society and its Institutions (3)

SDS381H1 - Intro to Trans Studies

Hours: 24L

This course examines current and historical transgender issues by exploring legal and health care issues, politics, mainstream and other media representations (including films, interviews, and other genres), as well as current and historical advocacy and community work in relation to power structures such as the nation-state, race, disability, and sexuality.

Prerequisite: Completion of one 0.5 credit from SDS/WGS/CSE.

Breadth Requirements: Thought, Belief and Behaviour (2)

SDS382H1 - Intro to Queer of Colour Critique

Hours: 24L

This course provides an introduction to the intersections between race, gender and sexuality through an exploration of the political theories, activisms and cultural forms of LGBTQ people of colour. It examines the emergence of queer of colour theory and critiques, and the ways in which the intersections of race, gender and sexuality figure in national, global, economic, & cultural structures.

Prerequisite: 0.5 credit in SDS

Breadth Requirements: Creative and Cultural Representations (1)

SDS385H1 - Queer Indigenous Politics and Cultures

Hours: 24L

This upper level course introduces students to questions of gender, sexuality, two-spirit, and same-sex desire at the intersections of race, indigeneity, and the violences of settler colonialism. Students will engage with work by scholars, activists, and artists in the fields of indigenous and queer studies, decolonizing activism, and cultural production.

Prerequisite: 0.5 credit in SDS/INS

Exclusion: SDS375H1 (Special Topics in Sexual Diversity Studies A: Indigeneity & Sexuality), offered in Winter 2019

Recommended Preparation: Some coursework in

SDS425H1 - Sexuality & Health

Hours: 24S

How is the idea of “ethics” understood and deployed in research on sexuality and health? What are the ways that discourses of “risk,” “precarity,” and “cure” become regulative frameworks? How do racialization, colonialism and nation-building participate in the biopolitics of sexuality and health? With these questions in mind, this interdisciplinary course will discuss various scholarly and activist literatures, including Youth Studies, Critical Disability Studies, Environmental Justice scholarship, Sex Education and Public Health Research, Critical Development Studies, and Queer and Feminist Studies to explore the cultural, social and political dimensions of ethics, health, and sexuality historically, and at the present moment.

Prerequisite: 1.0 credit in SDS/HST

Exclusion: SDS375H1 (Special Topics in Sexual Diversity Studies A: Sexuality & Health), offered in Winter 2018; SDS455H1 (Special Topics in Sexual Diversity Studies: Sexuality & Health), offered in Winter 2019

Recommended Preparation: Some coursework in health, disability studies, and equity studies

Breadth Requirements: Society and its Institutions (3)

JNS450H1 - Sexuality & Disability

Hours: 24S

An interdisciplinary and intersectional approach to the study of disability and sexuality. Students will engage with historical, mainstream and critical discourses and explore complex issues and representations pertaining to disability, sexuality, sexual practices and desire. Draws from a range of writings and cultural texts in queer, crip and sexuality studies.

Prerequisite: 1.0 SDS credit/ NEW240Y1/ NEW240H1/ CSE240H1/ NEW241Y1/ CSE241Y1

Breadth Requirements: Society and its Institutions (3)

SDS455H1 - Special Topics in Sexual Diversity Studies

Hours: 24S

Topics vary from year to year depending on instructor. This seminar is intended to expose students in the Sexual

Diversity Studies program to topics that may not be covered by permanent university courses.

Prerequisite: 1.0 credit in SDS

Recommended Preparation: Coursework in SDS at the 300 level or higher

SDS458H1 - Research Essay in Sexual Diversity

Hours: 24S

A research essay under the supervision of a faculty member with knowledge of sexual diversity, the proposal and supervisor subject to the approval of the SDS Undergraduate Coordinator. This course is available to students enrolled in Sexual Diversity Studies programs (Specialists, Majors, and Minors). Not eligible for CR/NCR option.

Students must submit a supplemental application one month prior to the start of term: August 01 for courses starting in the Fall term, December 01 for courses starting in the Winter term, and April 01 for courses in the Summer term. The application must describe the student's planned independent research project, supervisor, prospective readings, timeline, and method(s) of assessment. Students are responsible for finding their own supervisor. Both the supervisor and SDS Undergraduate Coordinator or Director must approve the application. Applications will be reviewed to assess the intended research plan and timeline, and the suitability of the project for SDS credit.

Please visit <https://sds.utoronto.ca/courses/> and email sexual.diversity@utoronto.ca for application materials and more information.

Prerequisite: SDS255H1, SDS256H1 and a minimum of 4.0 additional credits from SDS, JPS, JSU, or JNS courses.

Recommended Preparation: SDS460Y1

SDS459Y1 - Honours Essay in Sexual Diversity

Hours: 48S

A major research essay under the supervision of a faculty member with knowledge of sexual diversity, the proposal and supervisor subject to the approval of the SDS Undergraduate Coordinator. This course is available to students enrolled in Sexual Diversity Studies programs (Specialists, Majors, and Minors). Not eligible for CR/NCR option.

Students must submit a supplemental application at least one month prior to the start of term: August 01 for courses starting in the Fall term, December 01 for courses starting in the Winter term, and April 01 for courses in the Summer term. The application must describe the student's planned independent research project, supervisor, prospective readings, timeline, and method(s) of assessment. Students are responsible for finding their own supervisor. Both the supervisor and SDS Undergraduate Coordinator or Director must approve the application. Applications will be reviewed to assess the intended research plan and timeline, and the suitability of the project for SDS credit.

Please visit <https://sds.utoronto.ca/courses/> and email sexual.diversity@utoronto.ca for application materials and more information.

Prerequisite: SDS255H1, SDS256H1, and minimum of 4.0 additional credits from SDS, JPS, JSU, or JNS courses.

Recommended Preparation: SDS460Y1

SDS460Y1 - Advanced Research in Sexual Diversity Studies

Hours: 24S

A capstone for majors and specialists who will work closely with SDS faculty in developing their own research project while participating in this seminar and learning about key debates, methodologies, and ethical issues in conducting research in SDS. Students will learn to write proposals, ethics reviews, grants and other relevant documents. Not eligible for CR/NCR option.

Prerequisite: 1.0 credits in SDS, 0.5 of which needs to be a 300+ level SDS course

Recommended Preparation: SDS256H1

Breadth Requirements: Society and its Institutions (3)

SDS465H1 - Queer Migrations and Refugee Politics

Hours: 24S

This interdisciplinary course will explore the politics of migration and border-crossing from queer, feminist, and trans perspectives. Drawing upon contemporary North American and transnational research, students will engage with critical literatures on citizenship and the state, mobility, belonging, and kinship and how these processes intersect with sexuality in the context of immigration and refugee systems.

Prerequisite: 1.0 credit in SDS/DTS

Exclusion: SDS455H1 (Special Topics in Sexual Diversity Studies: Queer Migrations and Refugee Politics),

offered in Fall 2018

Recommended Preparation: Some coursework in migration & diaspora studies, or transnationalism

Breadth Requirements: Society and its Institutions (3)

SDS470H1 - Critical Approaches in Porn Studies

Hours: 24S

This course is a critical study of the historical, aesthetic, material, technical, legal, and cultural formation of the concept of pornography. The course explores the relationship between sexual representation, sex work, visual cultures, consumption, distribution, and format; works through debates about artistic merit and censorship and how they relate to larger issues of power, capitalism, and technology; and theorizes the relationship between sex and commerce. Readings will emphasize work by sex workers and feminist, queer, people of colour, and trans scholars.

Prerequisite: 1.0 credit in SDS

Recommended Preparation: [SDS279H1](#), [SDS365H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SDS478H1 - Queer Musics

Hours: 24S

This course explores, through queer of colour critique, feminist and queer theories, how sexuality, gender, and race are performed and heard in several popular music styles/genres. Sampling the field with readings, music videos and audio recordings, we examine sexuality, gender and race in music performance and reception currently and historically.

Prerequisite: 1.0 credit in SDS

Breadth Requirements: Creative and Cultural Representations (1)

SDS485H1 - Advanced Seminar in Queer Studies

Hours: 24S

This course will provide an advanced exploration of the historical and contemporary formations and debates of queer studies. This seminar is designed to provide students with the opportunity to practice their skills of research and interpretation at a particularly advanced level. The specific theme of the seminar changes per year. Please see the department website for details.

Prerequisite: 4.0 credits

Breadth Requirements: Society and its Institutions (3)

SDS490Y1 - Engaging Our Communities

Hours: 48S

A service learning course with student placements in various LGBT community organizations alongside regular classroom seminars to look at the politics of engagement, active citizenship, mobilization, archiving community histories, accessibility, belonging, activism, and philanthropy. For students in the Sexual Diversity Studies Major or Specialist.

Prerequisite: [SDS255H1](#)/ [SDS256H1](#) and at least 1.0 SDS credit at the 300-level.

Breadth Requirements: Society and its Institutions (3)

Slavic Languages and Literatures

Faculty List

Professors Emeriti

V. Ambros, MA, PhD
R. Bogert, MA, PhD
C.E. Kramer, MA, PhD
D. Orwin, MA, PhD
J. Schallert, PhD

Professor and Chair of the Department

L. Livak, MA, PhD

Associate Professor and Associate Chair, Graduate

D. Obradović, MA, PhD

Associate Professor and Interim Associate Chair, Undergraduate

T. Koznarsky, MA, PhD

Professors

L. Livak, MA, PhD
M. Tarnawsky, MA, PhD

Associate Professors

K. Holland, MA, PhD
A. Komaromi, MA, PhD
T. Koznarsky, MA, PhD
A. Muhonen, MA, PhD
D. Obradović, MA, PhD
T. Smoliarova, MA, PhD
T. Trojanowska, MA, PhD

Associate Professor, Teaching Stream and Language Program Coordinator

J. Mikhailova, MA, PhD

Assistant Professor

Z. Mandušić, MA, PhD

Assistant Professor, Teaching Stream

M. Cabaj, MA, PhD

the vast influx of immigrants from Eastern Europe which began in the last century, has contributed greatly to the Canadian cultural mosaic.

The Department of Slavic and East European Languages and Cultures offers an extensive range of courses in Bosnian, Croatian and Serbian, Czech, Estonian, Finnish, Polish, Russian, and Ukrainian languages, literatures, culture, and film, as well as comparative and interdisciplinary courses.

Language study emphasizes small instructional groups, conversational practice, and the use of current cultural materials. Courses in the literatures and cultures of various Slavic and East European countries explore the artistic, intellectual, and social cross-currents of their civilizations. Most of our literature, culture, and film courses are taught in English and do not require linguistic preparation or cultural background.

The growing importance of Eastern Europe in contemporary affairs makes academic study of this area especially relevant for a variety of disciplines in the humanities and social sciences, including political studies, history, sociology, diaspora studies, and others.

Interim Associate Chair, Undergraduate:
Associate Professor T.

Koznarsky, taras.koznarsky@utoronto.ca,
undergrad.slavic@utoronto.ca

Website: <https://slavic.artsci.utoronto.ca/>

Note Regarding Restructured and Renamed Slavic and East European Languages and Cultures Programs

Effective 2023-24: The Department of Slavic and East European Languages and Cultures (formerly the Department of Slavic Languages and Literatures) presented a restructured suite of undergraduate program offerings aimed at providing improved opportunities for students to engage in the comparative study of Slavic and East European cultures. These offerings will allow students to pursue studies in the following language and culture areas: Czech and Slovak, Estonian, Finnish, Polish, Russian, South Slavic, and Ukrainian.

Enrolment in the old Slavic Languages and Cultures Specialist, the Slavic Languages and Cultures Major (and its streams), the Slavic Languages and Cultures Minor (and its streams), and the Russian Literature in Translation Minor is no longer available as of September 21, 2023. Students presently enrolled in any of the above programs will be able to complete the requirements as described in the respective program records, published in the [2022-23 Arts & Science Academic Calendar](#).

Introduction

For over one thousand years the Slavic and East European countries have played a prominent role in international life, and have provided our civilization with numerous writers, musicians, philosophers, religious and political thinkers, and scientists of note. The richness of their cultures has a special significance for Canada, since

Beginning in March 2024, all students interested in pursuing language, literature, and/or cultural studies in Czech & Slovak, Polish, Russian, South Slavic, or Ukrainian are encouraged to enrol in one of the new programs in Slavic and East European Languages and Cultures (Minor, Major, Specialist) or in Slavic and East European Literature in Translation (Minor).

Slavic and East European Languages and Cultures Programs

Slavic and East European Languages and Cultures Specialist (Arts Program) - ASSPE1205

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10.5 credits, with at least 4.0 credits at the 300+ level, including 1.0 credit at the 400-level)

Students must choose any two of the available language areas (Czech and Slovak, Estonian, Finnish, Polish, Russian, South Slavic, Ukrainian).

Please note: Some courses may appear in more than one group thanks to their content. No course, however, may be counted twice for the purposes of program completion.

1. 1.0 credit of Common Core: [SLA201H1](#), [SLA231H1](#), [SLA232H1](#), and [SLA256H1](#)

2. 4.0 credits of language coursework from each of the two chosen language areas (2.0 credits per area).

Czech and Slovak: [SLA105Y1](#), [SLA204Y1](#), [SLA214H1](#).

Estonian: [EST100H1](#), [EST101H1](#), [EST200H1](#), [EST201H1](#), [EST300Y1](#).

Finnish: [FIN100H1](#), [FIN110H1](#), [FIN200H1](#), [FIN210H1](#), [FIN300H1](#), [FIN340H1](#), [FIN400H1](#); [SWE100H1](#), [SWE101H1](#).

Polish: [SLA106H1](#), [SLA116H1](#), [SLA206H1](#), [SLA207H1](#), [SLA306H1](#), [SLA336H1](#), [SLA426H1](#).

Russian: [SLA100H1](#), [SLA101H1](#), [SLA210H1](#), [SLA214H1](#), [SLA220Y1](#), [SLA221H1](#), [SLA320Y1](#), [SLA321H1](#), [SLA322H1](#), [SLA410H1](#), [SLA420Y1](#).

South Slavic (Bosnian, Croatian, Serbian): [SLA107Y1](#), [SLA214H1](#), [SLA257H1](#), [SLA277H1](#), [SLA337H1](#).

Ukrainian: [SLA108Y1](#), [SLA208Y1](#), [SLA308H1](#).

Note: In consultation with the Undergraduate Coordinator, and based on results in language placement tests, some students may substitute language courses with the equivalent number of credits in requirement 3 (below).

3. 4.0 credits from culture courses corresponding to the student's two chosen language areas (2.0 credits per area):

Czech and Slovak: [SLA200H1](#), [SLA215H1](#), [SLA225H1](#), [SLA254H1](#)/ [JSM354H1](#), [SLA333H1](#), [SLA335H1](#), [SLA405H1](#).

Estonian: [EST400Y1](#); [FIN225H1](#), [FIN240H1](#), [FIN260H1](#), [FIN310H1](#); [HIS331H1](#); [SLA200H1](#), [SLA254H1](#)/ [JSM354H1](#).

Finnish: [FIN225H1](#), [FIN230H1](#), [FIN236H1](#), [FIN238H1](#), [FIN240H1](#), [FIN250H1](#), [FIN260H1](#), [FIN270H1](#), [FIN280H1](#), [FIN310H1](#), [FIN320H1](#), [FIN350H1](#), [FIN360H1](#), [FIN415H1](#); [EST400Y1](#); [HIS331H1](#).

Polish: [SLA216H1](#), [SLA226H1](#), [SLA229H1](#), [SLA236H1](#), [SLA266H1](#), [SLA286H1](#), [SLA346H1](#), [SLA356H1](#), [SLA406H1](#), [SLA427H1](#), [SLA436H1](#).

Russian: [SLA121H1](#), [SLA194H1](#), [SLA195H1](#), [SLA196H1](#), [SLA203H1](#), [SLA212H1](#), [SLA224H1](#), [SLA234H1](#), [SLA245H1](#), [SLA252H1](#), [SLA253H1](#), [SLA254H1](#)/ [JSM354H1](#), [SLA260H1](#), [SLA263H1](#), [SLA268H1](#), [SLA280H1](#), [JSH300H1](#), [SLA300H1](#), [SLA310H1](#), [SLA311H1](#), [SLA312H1](#), [SLA314H1](#), [SLA317H1](#), [SLA318H1](#), [SLA320Y1](#), [SLA321H1](#), [SLA322H1](#), [SLA323H1](#), [SLA330H1](#), [SLA331H1](#), [SLA334H1](#), [SLA342H1](#), [SLA343H1](#), [SLA345H1](#), [SLA367H1](#), [SLA400H1](#), [SLA404H1](#), [SLA412H1](#), [SLA413H1](#), [SLA414H1](#), [SLA415H1](#), [SLA420Y1](#), [SLA423H1](#), [SLA424Y1](#), [SLA430H1](#), [SLA433H1](#), [SLA434H1](#), [SLA449H1](#), [SLA463H1](#).

South Slavic: [SLA200H1](#), [SLA217H1](#), [SLA227H1](#), [SLA235H1](#), [SLA247H1](#), [SLA330H1](#), [SLA347H1](#), [SLA357H1](#), [SLA380H1](#)/ [SLA232H1](#).

Ukrainian: [SLA199H1](#), [SLA200H1](#), [SLA203H1](#), [SLA218H1](#), [SLA228H1](#), [SLA238H1](#), [SLA248H1](#), [SLA253H1](#), [SLA254H1](#)/ [JSM354H1](#), [SLA268H1](#),

SLA311H1, SLA318H1, SLA328H1, SLA331H1, SLA338H1, SLA358H1, SLA428H1, SLA429H1.

Note: In consultation with the Undergraduate Coordinator, students may take up to 1.0 credit in history or political science courses corresponding to their two chosen language areas (0.5 credit per language area) and taught outside the department.

4. 1.0 credit from the pool of comparative courses offered by the Department: FIN225H1, FIN238H1, FIN240H1, FIN260H1, SLA104H1, SLA190H1, SLA191H1, SLA192H1, SLA200H1, SLA201H1, SLA202H1, SLA203H1, SLA222H1, SLA229H1, SLA231H1, SLA232H1, SLA235H1, SLA254H1/ JSM354H1, SLA256H1, SLA268H1, SLA286H1, SLA302H1, SLA303H1, SLA318H1, SLA330H1, SLA331H1, SLA333H1, SLA380H1, SLA425H1, SLA435H1, SLA492H1.

5. 0.5 credit in Breadth Requirement Category 5: The Physical and Mathematical Universes or another 0.5 credit approved by the Undergraduate Coordinator, to fulfill the Quantitative Reasoning Competency required in the program.

Slavic and East European Languages and Cultures Major (Arts Program) - ASMAJ1205

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(6.5 credits, with at least 2.0 credits at the 300+ level, including 0.5 credit at the 400-level)

Please note: Some courses may appear in more than one group thanks to their content. No course, however, may be counted twice for the purposes of program completion.

1. 1.0 credit of Common Core: SLA201H1, SLA231H1, SLA232H1, and SLA256H1

2. 2.0 credits of language coursework in one language area chosen from the list below:

Czech and Slovak: SLA105Y1, SLA204Y1, SLA214H1.

Estonian: EST100H1, EST101H1, EST200H1, EST201H1, EST300Y1.

Finnish: FIN100H1, FIN110H1, FIN200H1, FIN210H1, FIN300H1, FIN340H1, FIN400H1; SWE100H1, SWE101H1.

Polish: SLA106H1, SLA116H1, SLA206H1, SLA207H1, SLA306H1, SLA336H1, SLA426H1.

Russian: SLA100H1, SLA101H1, SLA210H1, SLA214H1, SLA220Y1, SLA221H1, SLA320Y1, SLA321H1, SLA322H1, SLA410H1, SLA420Y1.

South Slavic (Bosnian, Croatian, Serbian): SLA107Y1, SLA214H1, SLA257H1, SLA277H1, SLA337H1.

Ukrainian: SLA108Y1, SLA208Y1, SLA308H1.

Note: In consultation with the Undergraduate Coordinator, and based on results in language placement tests, some students may substitute language courses with the equivalent number of credits in requirement 3 (below).

3. 2.0 credits from culture courses corresponding to the student's chosen language area:

Czech and Slovak: SLA200H1, SLA215H1, SLA225H1, SLA254H1/ JSM354H1, SLA333H1, SLA335H1, SLA405H1.

Estonian: EST400Y1; FIN225H1, FIN240H1, FIN260H1, FIN310H1; HIS331H1; SLA200H1, SLA254H1/ JSM354H1.

Finnish: FIN225H1, FIN230H1, FIN236H1, FIN238H1, FIN240H1, FIN250H1, FIN260H1, FIN270H1, FIN280H1, FIN310H1, FIN320H1, FIN350H1, FIN360H1, FIN415H1; EST400Y1; HIS331H1.

Polish: SLA216H1, SLA226H1, SLA229H1, SLA236H1, SLA266H1, SLA286H1, SLA346H1, SLA356H1, SLA406H1, SLA427H1, SLA436H1.

Russian: SLA121H1, SLA194H1, SLA195H1, SLA196H1, SLA203H1, SLA212H1, SLA224H1, SLA234H1, SLA245H1, SLA252H1, SLA253H1, SLA254H1/ JSM354H1, SLA260H1, SLA263H1, SLA268H1, SLA280H1, JSH300H1, SLA300H1, SLA310H1, SLA311H1, SLA312H1, SLA314H1, SLA317H1, SLA318H1, SLA320Y1, SLA321H1, SLA322H1, SLA323H1, SLA330H1, SLA331H1, SLA334H1, SLA342H1, SLA343H1, SLA345H1, SLA367H1, SLA400H1, SLA404H1, SLA412H1, SLA413H1, SLA414H1, SLA415H1, SLA420Y1, SLA423H1, SLA424Y1, SLA430H1, SLA433H1, SLA434H1, SLA449H1, SLA463H1.

South Slavic: SLA200H1, SLA217H1, SLA227H1, SLA235H1, SLA247H1, SLA330H1, SLA347H1, SLA357H1, SLA380H1/ SLA232H1.

Ukrainian: [SLA199H1](#), [SLA200H1](#), [SLA203H1](#), [SLA218H1](#), [SLA228H1](#), [SLA238H1](#), [SLA248H1](#), [SLA253H1](#), [SLA254H1/ JSM354H1](#), [SLA268H1](#), [SLA311H1](#), [SLA318H1](#), [SLA328H1](#), [SLA331H1](#), [SLA338H1](#), [SLA358H1](#), [SLA428H1](#), [SLA429H1](#).

Note: In consultation with the Undergraduate Coordinator, students may take 0.5 credit in history or political science courses corresponding to their chosen language area and taught outside the department.

4. 1.0 credit from the pool of comparative courses offered by the Department: [FIN225H1](#), [FIN238H1](#), [FIN240H1](#), [FIN260H1](#), [SLA104H1](#), [SLA190H1](#), [SLA191H1](#), [SLA192H1](#), [SLA200H1](#), [SLA201H1](#), [SLA202H1](#), [SLA203H1](#), [SLA222H1](#), [SLA229H1](#), [SLA231H1](#), [SLA232H1](#), [SLA235H1](#), [SLA254H1/ JSM354H1](#), [SLA256H1](#), [SLA268H1](#), [SLA286H1](#), [SLA302H1](#), [SLA303H1](#), [SLA318H1](#), [SLA330H1](#), [SLA331H1](#), [SLA333H1](#), [SLA380H1](#), [SLA425H1](#), [SLA435H1](#), [SLA492H1](#).

5. 0.5 credit in Breadth Requirement Category 5: The Physical and Mathematical Universes or another 0.5 credit approved by the Undergraduate Coordinator, to fulfill the Quantitative Reasoning Competency required in the program.

Slavic and East European Languages and Cultures Minor (Arts Program) - ASMIN1205

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, with at least 1.0 credit at the 300+ level)

Please note: Some courses may appear in more than one group thanks to their content. No course, however, may be counted twice for the purposes of program completion.

1. 0.5 credit of Common Core: [SLA201H1](#), [SLA231H1](#), [SLA232H1](#), or [SLA256H1](#).

2. 2.0 credits of language coursework in one language area chosen from the list below:

Czech and Slovak: [SLA105Y1](#), [SLA204Y1](#), [SLA214H1](#).

Estonian: [EST100H1](#), [EST101H1](#), [EST200H1](#), [EST201H1](#), [EST300Y1](#).

Finnish: [FIN100H1](#), [FIN110H1](#), [FIN200H1](#), [FIN210H1](#), [FIN300H1](#), [FIN340H1](#), [FIN400H1](#); [SWE100H1](#), [SWE101H1](#).

Polish: [SLA106H1](#), [SLA116H1](#), [SLA206H1](#), [SLA207H1](#), [SLA306H1](#), [SLA336H1](#), [SLA426H1](#).

Russian: [SLA100H1](#), [SLA101H1](#), [SLA210H1](#), [SLA214H1](#), [SLA220Y1](#), [SLA221H1](#), [SLA320Y1](#), [SLA321H1](#), [SLA322H1](#), [SLA410H1](#), [SLA420Y1](#).

South Slavic (Bosnian, Croatian, Serbian): [SLA107Y1](#), [SLA214H1](#), [SLA257H1](#), [SLA277H1](#), [SLA337H1](#).

Ukrainian: [SLA108Y1](#), [SLA208Y1](#), [SLA308H1](#).

Note: In consultation with the Undergraduate Coordinator, and based on results in language placement tests, some students may substitute language courses with the equivalent number of credits in requirement 3 (below).

3. 1.0 credit from culture courses corresponding to the student's chosen language area:

Czech and Slovak: [SLA200H1](#), [SLA215H1](#), [SLA225H1](#), [SLA254H1/ JSM354H1](#), [SLA333H1](#), [SLA335H1](#), [SLA405H1](#).

Estonian: [EST400Y1](#); [FIN225H1](#), [FIN240H1](#), [FIN260H1](#), [FIN310H1](#); [HIS331H1](#); [SLA200H1](#), [SLA254H1/ JSM354H1](#).

Finnish: [FIN225H1](#), [FIN230H1](#), [FIN236H1](#), [FIN238H1](#), [FIN240H1](#), [FIN250H1](#), [FIN260H1](#), [FIN270H1](#), [FIN280H1](#), [FIN310H1](#), [FIN320H1](#), [FIN350H1](#), [FIN360H1](#), [FIN415H1](#); [EST400Y1](#); [HIS331H1](#).

Polish: [SLA216H1](#), [SLA226H1](#), [SLA229H1](#), [SLA236H1](#), [SLA266H1](#), [SLA286H1](#), [SLA346H1](#), [SLA356H1](#), [SLA406H1](#), [SLA427H1](#), [SLA436H1](#).

Russian: [SLA121H1](#), [SLA194H1](#), [SLA195H1](#), [SLA196H1](#), [SLA203H1](#), [SLA212H1](#), [SLA224H1](#), [SLA234H1](#), [SLA245H1](#), [SLA252H1](#), [SLA253H1](#), [SLA254H1/ JSM354H1](#), [SLA260H1](#), [SLA263H1](#), [SLA268H1](#), [SLA280H1](#), [JSH300H1](#), [SLA300H1](#), [SLA310H1](#), [SLA311H1](#), [SLA312H1](#), [SLA314H1](#), [SLA317H1](#), [SLA318H1](#), [SLA320Y1](#), [SLA321H1](#), [SLA322H1](#), [SLA323H1](#), [SLA330H1](#), [SLA331H1](#), [SLA334H1](#), [SLA342H1](#), [SLA343H1](#), [SLA345H1](#), [SLA367H1](#), [SLA400H1](#), [SLA404H1](#), [SLA412H1](#), [SLA413H1](#), [SLA414H1](#), [SLA415H1](#), [SLA420Y1](#), [SLA423H1](#), [SLA424Y1](#), [SLA430H1](#), [SLA433H1](#), [SLA434H1](#), [SLA449H1](#), [SLA463H1](#).

South Slavic: [SLA200H1](#), [SLA217H1](#), [SLA227H1](#), [SLA235H1](#), [SLA247H1](#), [SLA330H1](#), [SLA347H1](#), [SLA357H1](#), [SLA380H1/ SLA232H1](#).

Ukrainian: [SLA199H1](#), [SLA200H1](#), [SLA203H1](#), [SLA218H1](#), [SLA228H1](#), [SLA238H1](#), [SLA248H1](#), [SLA253H1](#), [SLA254H1/ JSM354H1](#), [SLA268H1](#), [SLA311H1](#), [SLA318H1](#), [SLA328H1](#), [SLA331H1](#), [SLA338H1](#), [SLA358H1](#), [SLA428H1](#), [SLA429H1](#).

Note: In consultation with the Undergraduate Coordinator, students may take 0.5 credit in history or political science courses corresponding to their chosen language area and taught outside the department.

4. 0.5 credit from the pool of comparative courses offered by the Department: [FIN225H1](#), [FIN238H1](#), [FIN240H1](#), [FIN260H1](#), [SLA104H1](#), [SLA190H1](#), [SLA191H1](#), [SLA192H1](#), [SLA200H1](#), [SLA201H1](#), [SLA202H1](#), [SLA203H1](#), [SLA222H1](#), [SLA229H1](#), [SLA231H1](#), [SLA232H1](#), [SLA235H1](#), [SLA254H1/ JSM354H1](#), [SLA268H1](#), [SLA286H1](#), [SLA302H1](#), [SLA303H1](#), [SLA318H1](#), [SLA330H1](#), [SLA331H1](#), [SLA333H1](#), [SLA380H1/ SLA232H1](#), [SLA425H1](#), [SLA435H1](#), [SLA492H1](#).

Slavic and East European Literature in Translation Minor (Arts Program) - ASMIN1210

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, with at least 1.0 credit at the 300+-level)

Please note: Some courses may appear in more than one group thanks to their content. No course, however, may be counted twice for the purposes of program completion.

1. 0.5 credit of Common Core: [SLA201H1](#), [SLA231H1](#), [SLA232H1](#) or [SLA256H1](#)

2. 2.0 credits in one cultural area chosen from the list below:

Czech and Slovak: [SLA200H1](#), [SLA215H1](#), [SLA225H1](#), [SLA254H1/ JSM354H1](#), [SLA333H1](#), [SLA335H1](#), [SLA405H1](#).

Finnish and Estonian: [EST400Y1](#), [FIN225H1](#), [FIN230H1](#), [FIN236H1](#), [FIN238H1](#), [FIN240H1](#), [FIN250H1](#), [FIN260H1](#), [FIN270H1](#), [FIN280H1](#), [FIN310H1](#), [FIN320H1](#), [FIN350H1](#), [FIN360H1](#), [FIN415H1](#); [HIS331H1](#).

Polish: [SLA216H1](#), [SLA226H1](#), [SLA229H1](#), [SLA236H1](#), [SLA266H1](#), [SLA286H1](#), [SLA346H1](#), [SLA356H1](#), [SLA406H1](#), [SLA427H1](#), [SLA436H1](#).

Russian: [SLA121H1](#), [SLA194H1](#), [SLA195H1](#), [SLA196H1](#), [SLA203H1](#), [SLA212H1](#), [SLA224H1](#), [SLA234H1](#), [SLA245H1](#), [SLA252H1](#), [SLA253H1](#), [SLA254H1/ JSM354H1](#), [SLA260H1](#), [SLA263H1](#), [SLA268H1](#), [SLA280H1](#), [JSH300H1](#), [SLA300H1](#), [SLA310H1](#), [SLA311H1](#), [SLA312H1](#), [SLA314H1](#), [SLA317H1](#), [SLA318H1](#), [SLA331H1](#), [SLA334H1](#), [SLA342H1](#), [SLA343H1](#), [SLA345H1](#), [SLA367H1](#), [SLA400H1](#), [SLA423H1](#), [SLA433H1](#), [SLA434H1](#), [SLA449H1](#), [SLA463H1](#).

South Slavic: [SLA200H1](#), [SLA217H1](#), [SLA227H1](#), [SLA235H1](#), [SLA247H1](#), [SLA347H1](#), [SLA357H1](#), [SLA380H1/ SLA232H1](#).

Ukrainian: [SLA199H1](#), [SLA200H1](#), [SLA203H1](#), [SLA218H1](#), [SLA228H1](#), [SLA238H1](#), [SLA248H1](#), [SLA253H1](#), [SLA254H1/ JSM354H1](#), [SLA268H1](#), [SLA311H1](#), [SLA318H1](#), [SLA328H1](#), [SLA331H1](#), [SLA338H1](#), [SLA358H1](#), [SLA428H1](#), [SLA429H1](#).

3. 1.5 credits from the pool of comparative courses offered by the Department:

[FIN225H1](#), [FIN238H1](#), [FIN240H1](#), [FIN260H1](#), [SLA104H1](#), [SLA190H1](#), [SLA191H1](#), [SLA192H1](#), [SLA200H1](#), [SLA201H1](#), [SLA202H1](#), [SLA203H1](#), [SLA222H1](#), [SLA229H1](#), [SLA231H1](#), [SLA235H1](#), [SLA254H1/ JSM354H1](#), [SLA268H1](#), [SLA286H1](#), [SLA302H1](#), [SLA303H1](#), [SLA318H1](#), [SLA331H1](#), [SLA333H1](#), [SLA380H1/ SLA232H1](#), [SLA425H1](#), [SLA435H1](#), [SLA492H1](#).

Faculty of Arts & Science Language Citation

The Department of Slavic and East European Languages and Cultures participates in the Faculty of Arts and Science's Language Citation initiative. Students may achieve this Citation in Bosnian, Croatian, Czech, Polish, Russian, Serbian, and Ukrainian. Students interested in completing the Language Citation in languages taught in the Slavic Department but not listed here should consult the Undergraduate Coordinator of the Department of Slavic Languages and Literatures.

Language study is a demanding and intellectually rewarding educational experience. Our students learn to communicate both orally and in writing in other languages and are thus able to experience other parts of the world in more intimate ways. Their access to other cultures opens

doors for further study and employment. Students in our department also have the opportunity to read a vast array of world-renowned authors in the original languages, as well as works – normally not available in English – in other areas of study, for example, cinema studies, drama, folklore, history, intellectual history, philosophy, mathematics, and political science.

The Language Citation recognizes a significant level of achievement in language study. For course selection students should consult the Undergraduate Coordinator as early as possible since not every language course is offered each year. Students who begin language study at the Intermediate level should consult the Undergraduate Coordinator for approval of advanced literature and culture courses that may satisfy the requirements for the Language Citation.

The Language Citation in Bosnian, Croatian, or Serbian is available to students who complete [SLA257H1](#), [SLA277H1](#), and an additional credit in South Slavic literature or culture with readings and discussion in the target language with a grade of at least B-. The Language Citation in Macedonian is available to students who complete [SLA209H1](#), [SLA213H1](#) and an additional credit in South Slavic literature or culture with readings and discussion in the target language with a grade of at least B-. Consult the Undergraduate Coordinator for approval of advanced literature and culture courses that may satisfy the requirements for the Language Citation.

The Language Citation in Czech is available to students who complete [SLA204Y1](#) and one (1.0) additional credit in Czech literature or culture with readings and discussion in the target language with a grade of at least B-.

The Language Citation in Polish is available to students who complete [SLA206H1](#), [SLA207H1](#), [SLA306H1](#) and [SLA336H1](#) with a grade of at least B-.

The Language Citation in Russian is available to students who complete, with a grade of at least B-, 2.0 credits from: [SLA220Y1](#), [SLA320Y1](#), or [SLA420Y1](#).

The Language Citation in Ukrainian is available to students who complete [SLA208Y1](#) as well as one (1.0) additional credit in Ukrainian literature or culture with readings and discussion in the target language with a grade of at least B-. Transfer language credits are also eligible.

Students should note that, as explained in the [About Programs of Study](#) section of this Calendar, the Language Citation is not equivalent to an academic program and that enrolment in a program is not necessary in order to earn the recognition bestowed by the Citation.

Regarding Slavic and East European Languages and Cultures Courses

Please note that the Department reserves the right to place students in the language course best suited to their linguistic preparation.

Bosnian, Croatian, Macedonian and Serbian Courses

Please see South Slavic Courses.

Macedonian Courses

Please see South Slavic Courses.

Russian Language Student Placement Policy

All students who have studied Russian outside the University of Toronto must take a language placement test prior to enrolling into a Russian language course. Contact the Department for test dates and times.

Native speakers of Russian are not allowed to enrol into any Russian language course, with the exception of [SLA330H1](#). Native speakers may enrol into any Russian literature and culture course, and any Russian program of study (language requirement will be replaced with the equivalent number of literature and culture credits in consultation with the Undergraduate Coordinator).

Heritage speakers of Russian are allowed to enrol into a Russian language course only by special permission from the Russian language program coordinator, Professor Julia Mikhailova (julia.mikhailova@utoronto.ca) but are encouraged to enrol in [SLA210H1](#) and [SLA410H1](#), courses specially designed for them. Heritage speakers may enroll into any Russian literature and culture course, and any Russian program of study (if necessary, language requirement will be replaced with the equivalent number of literature and culture credits in consultation with the Undergraduate Coordinator).

Who are native and heritage speakers of Russian?

For academic purposes, the Department considers a student to be a native speaker of Russian if they meet one of the following criteria:

1. The student left Russia at the age of 10 or later.
2. The student lived in a Russian-speaking country (any former Soviet republic) before the age of 10 and did elementary schooling in Russian.

For academic purposes, the Department considers a student to be a heritage speaker of Russian if they meet one of the following criteria:

1. The student left Russia before the age of 10.
2. The student lived in a Russian-speaking country (any former Soviet republic) before the age of 10 but did elementary schooling in a language other than Russian.
3. The student was born and/or grew up outside of a Russian-speaking country but speaks some Russian at home.

Slavic and East European Languages and Cultures Courses

Slavic First-Year Foundations

SLA190H1 - Losing It

Previous Course Number: SLA201H1

Hours: 24S

How does one cope with loss, be it a nose, a leg, a pet, a name, a lover, a battle, a fortune, or one's sanity? Through literary texts from Central and Eastern Europe, we explore the trauma and poetics of losing, and the mechanisms of coping with and compensating for the lost object. Taught in English, all readings in English. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: SLA201H1

Breadth Requirements: Creative and Cultural Representations (1)

SLA191H1 - The Criminal Mind

Hours: 24S

In the mid-nineteenth century, European and American fiction became obsessed with the subject of criminals. This course examines this preoccupation and its literary and social ramifications. We discuss the changing image of the criminal in British, French, Russian and American fiction. Readings by Dickens, Dostoevsky, Balzac, Zola, Poe, Stevenson and Lombroso. Reading and discussion in English. Restricted to first-year students. Not eligible for CR/NCR option.

It is the responsibility of individual students to furnish documentation proving their native- or heritage-speaker status. In the absence of such documentation, the Department reserves the right to deny enrolment into Russian language courses. Heritage and native speakers of Russian who enroll in a Russian language course and fail to identify themselves to the Department engage in cheating and will be treated in accordance with the university policy on academic misconduct.

Ukrainian Courses

Website: www.chass.utoronto.ca/~tarn/courses/

Breadth Requirements: Creative and Cultural Representations (1)

SLA192H1 - On the Road in Eastern Europe

Hours: 24S

This course examines the function of travel within texts and films depicting journeys through Eastern Europe. We will distinguish various types of journeys, the narrative and cultural expectations they imply, and the ways that travel relates to individual identity, raising questions about nationality, race, gender, sexuality, and the Other. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA193H1 - Objects of War

Hours: 24L

An object or a thing always has a collective history. It speaks of the political and the social conditions under which it was made. In this course, objects of war – the material culture of conflict – from the 20th and 21st centuries will be critically and historically examined. How do these objects speak of violence, politics, and culture, but also rewrite and influence the arenas within which they circulate? Some objects include: canned food, drones, the journalists' hotel, helmets, tents. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA194H1 - Utopia Interrupted: Late and Post-Soviet Russian Literature

Hours: 24S

Almost 30 years after the collapse of the Soviet Union, what can we understand about its culture and people, and its impact on the popular imagination in the West? To answer these questions, the course introduces students to canonical literary and cinematic works from the post-Stalin era to the present, with particular attention to the literary and cultural peripheries. Some of the topics will include: Gulag, or Return of the Repressed, Counter-Culture, Space Race, Immigration, Gender, Perestroika, and Putin's Russia. All readings in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA195H1 - Literature and Painting in Russia and the West

Hours: 24S

What makes literature 'visible'? How do the verbal and the visual coexist? This seminar explores the relationship between words and images, texts and pictures through history, in Russia and the West. Special attention will be paid to the figure of the artist. Is it a writer's *alter ego*, the incarnation of creativity, or just a character among others? Literary texts (mainly short stories) from Balzac and Gogol to Chekhov and O. Henry, Maugham and Bunin, Nabokov and Camus will be studied along with the paintings of some major 19th-20th century artists. The comparative dimension of the course will help students contextualize Russian literature and think about its relationship with the Western canon. We will also watch some 21st century films about artists (such as Julie Taymor's *Frida* [2002], Milos Forman *Goya's Ghosts* [2006], and Mike Leigh *Mr. Turner* [2014]). All texts will be in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA196H1 - Russia at War

Hours: 24S

In its long history Russia has fought numerous wars, both defensive and offensive, and these wars have inspired a rich, complex, contradictory poetic response. We examine Russian war narratives starting with the medieval period and ending with the Second World War and including epic poetry, songs, stories, novels, paintings, and films. We will

study the depiction of war and the image of the soldier (or warrior) in different genres and time periods, as well as the historical circumstances in which the different works were produced and the respective audiences for which they were intended. All texts will be in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA197H1 - The Imaginary Jew

Hours: 24S

The course examines the genesis and evolution of the image of the Jew, central to all European cultures, from the theology and psychology of Christian anti-Judaism to their reflection in folklore, visual, plastic, and verbal arts, and to the survival of the imaginary Jew in secular forms. Special attention is given to the Jews of Slavic and East European imagination. All readings are in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA198H1 - The Slavic Grecian Formula: From Ancient Rhapsode to Modern Slav Song

Hours: 24S

Slav singers of heroic tales about war, lust, honour and revenge have made a special contribution to our appreciation of classical literature and mythology. We will compare Slavic epics and African-American rap songs to reveal the connection between Homer's *Iliad* and Nas's iconic *Illmatic*, between the mythical image of the pagan goddess Aphrodite and the mystique of Nicki Minaj, Lauryn Hill, and other iconic singers today. As we read *The Iliad* closely, we will study songs from the Russian, Bosnian Muslim, Croatian and Serbian traditions. Employing new performance formulaic theory, we will learn that they share much, in melody and message, with the work of today's hip-hop artists, whose roots of rap "flowing" reach back to the beginnings of Western literature and the epic singers of ancient Greece. Students will have the opportunity to interact with a unique online multimedia edition of an epic song by a traditional Slavic singer.

No knowledge of languages other than English is required. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SLA199H1 - Invisible Kingdom, Imaginary Space

Hours: 24S

The Central European Region of Galicia gave rise to a remarkable array of literary representations -- Austrian, Jewish, Polish, and Ukrainian -- animating fantastic creatures, powerful myths, deviant pleasures, and sublime stories. Bruno Schulz created shimmering peacocks, Leopold von Sacher-Masoch seized ecstasy through pain, and Ivan Franko investigated the effects of avarice and social decay. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

Slavic Interdisciplinary Courses

SLA104H1 - Cities of the Mediterranean

Hours: 24L

This course examines the cultural history of Mediterranean ports and cities, with particular emphasis on Croatian cities in dialogue with cities in Italy and Greece, through works of art, architecture, and literature. Readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA200H1 - Culture and Politics in Europe

Hours: 24L

Introduction to the issues of the interaction between cultural expression and political life, with a historical focus on 1968 in Central and Eastern Europe. The mutually influential relationship between artistic activity and political dynamics in modern societies is examined through literature, visual arts, drama, music, and film. Taught in English, all materials in English.

Breadth Requirements: Society and its Institutions (3)

SLA201H1 - Slavic and East European Civilizations

Previous Course Number: SLA103H1

Hours: 24L

A survey of Slavic and East European civilizations through literature, art, architecture, and film. Key moments in the development of the cultures of Slavic and Baltic countries are examined in a comparative framework, juxtaposing the varied historical, cultural, linguistic, religious, social, and political developments of the countries involved. Taught in English, all readings in English.

Exclusion: SLA103H1

Breadth Requirements: Creative and Cultural Representations (1)

SLA202H1 - Jewish Communities in Slavic Countries

Hours: 24L

Literature about the Jewish community in Slavic countries. How do these Jewish minorities perceive and identify themselves? How are they perceived by others? Taught in English, all readings in English.

Breadth Requirements: Society and its Institutions (3)

SLA203H1 - Faking It

Hours: 24L

The role of forgery in cultural, national, and personal identities. A scholar "discovering" an "ancient" manuscript, a noblewoman in disguise joining the army, an impostor conning a provincial town, a writer faking political loyalty. Literary texts from Central and Eastern Europe expose the porous boundaries between authenticity and lies, highlighting the artificiality and vulnerability of social and cultural conventions. Taught in English, all readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA214H1 - Slavic Languages through Creative Writing

Hours: 24P

A course for students of Czech and Slovak, BCS and Russian. Improve your writing skills in a group of different

Slavic language learners. Learn simple creative writing in different genres. This course presents a catalogue of different methods and strategies for individual learners at various stages of writing in a foreign language. Complements rather than substitutes for intermediate and advanced levels of the languages taught.

Prerequisite: [SLA105Y1](#) or [SLA107Y1](#) or ([SLA100H1](#) and [SLA101H1](#))

Corequisite: [SLA204Y1](#) or ([SLA257H1](#) and [SLA277H1](#)) or [SLA220Y1](#) or [SLA320Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA222H1 - Forging Identities: The Roma of Central and Eastern Europe

Hours: 24S

Both in popular culture and the headlines, Roma (Gypsies) are often depicted as either romantic or negative. Roma and Slavs have interacted for centuries and this course examines the history of that interaction with particular emphasis on linguistic and educational rights. Taught in English, all readings in English.

Breadth Requirements: Society and its Institutions (3)

SLA229H1 - Writing with Images: Eastern and Central European History Through the Graphic Novel

Hours: 24L

This course examines how East and Central European graphic novelists retell the history of the 20th century in images and words. Our focus is the medium. How do comics effect the relationship between the personal and national? Can graphic novels substitute history textbooks?

Breadth Requirements: Creative and Cultural Representations (1)

SLA231H1 - Analyzing Slavic and East European Cultural Texts

Hours: 24L

This Slavic Languages and Cultures core course teaches the skills of basic analysis of Slavic and East European cultural texts including prose fiction, drama, poetry, folklore and films. May also include visual arts and/or digital cultural texts. Looking at a different kind of cultural text each week, the course focuses on close reading,

formal and structural analysis, representation, figurative language and metaphor across different media and develops foundational skills for cultural textual interpretation. Readings from throughout the Slavic and East European regions.

Breadth Requirements: Creative and Cultural Representations (1)

SLA232H1 - Language, Politics, Identity

Previous Course Number: SLA380H1

Hours: 24S

In this course we will examine the multi-faceted nature of language policy, language standardization, language contact, language maintenance, language conflict and language loss. In addition, we will explore issues such as language rights, languages of education and linguistic identity. While the focus will be on languages in the Slavic, East European, Nordic and Baltic regions, the discourse in this class will also relate to a broad range of language issues globally.

Exclusion: [SLA380H1](#)

Breadth Requirements: Society and its Institutions (3)

SLA235H1 - After Communism: Literature and Art Post-1989

Previous Course Number: SLA377H1

Hours: 24S

This course examines the era inaugurated by the collapse of the state-socialist regimes in the former Eastern Bloc, marked by political turmoil, major economic restructuring, and social ambivalences. The course investigates topics such as: socialist legacy and nostalgia, mass emigrations and refugee crises, conflicts over national identity and borders, sociocultural anxieties about inclusion in the EU, perspectives on the future of socialist thought and practice in Eastern Europe.

Exclusion: [SLA377H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA253H1 - Origins of Russia and Ukraine

Previous Course Number: SLA102H1

Hours: 24L

A survey of key periods and foundations of Russian and Ukrainian societies and cultures. Explores common

elements, differences, and factors (social structure, religion, art, and literature) that shaped the Ukrainian-Russian historical encounter from the Middle Ages to the 2022 Russian invasion of Ukraine. Taught in English, all readings in English. No background knowledge required.

Breadth Requirements: Creative and Cultural Representations (1)

SLA256H1 - Firebirds and Other Wonders: The World of Slavic and East European Folklore

Hours: 24L/12T

An introduction to the comparative study of folk narratives – fairy-tales, legends, epics, from Russia, Central and Eastern Europe, and the Baltic Region. Topics include the structural and psychological analysis and interpretation of oral folk traditions; the cultural specificity of Slavic and Baltic folklore; its adaptation and treatment in literature, music, and visual arts. Taught in English, all readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA268H1 - Cossacks!

Hours: 24S

How are Cossacks depicted in literary and visual works? Were they the agents of a repressive Russian government, the hirelings of Polish kings, the tormentors of Eastern European Jews, the protectors of Europe from the Ottomans, or the liberators of the Ukrainian nation? We read works from the Jewish, Polish, Russian and Ukrainian cultural traditions.

Exclusion: CCR199H1 (First-Year Seminar: *The Cossacks*), offered in Winter 2012, Winter 2013, Fall 2013, Fall 2015, Fall 2016, and Fall 2017

Breadth Requirements: Creative and Cultural Representations (1)

SLA280H1 - Introduction to Russian Asia: From Central Asia to Siberia

Hours: 24S

Introduction to geography, languages, people, literature, and the history of Russian Asia. Includes readings in history, exile narratives, articles on the linguistic geography of the languages of Russia including Russian,

Siberian languages such as Yakut and Tungus, Turkic languages of Central Asia, Korean and Chinese as minority languages, with a special focus on language contact and language politics.

Breadth Requirements: Society and its Institutions (3)

SLA286H1 - Russian and East European Science Fiction

Previous Course Number: SLA486H1

Hours: 24S

Science fiction from Russia and Eastern Europe combines radical aesthetics, thought experiments, and engagement with socio-political conditions, censorship, and technological innovation. This course will study Russian and East European science fiction's cultural, historical, and political contexts, examining how the genre comments upon the texts' present historical moment and imagines new possibilities.

Exclusion: SLA486H1

Breadth Requirements: Creative and Cultural Representations (1)

SLA302H1 - The Imaginary Jew

Hours: 24S

This course examines the genesis and evolution of the image of "the jews," central to all European cultures, from the theology and psychology of Christian anti-Judaism to their reflection in arts and folklore, and to the survival of the "jewish" vocabulary of difference, in secular form, in post-Christian cultures. Special attention is given to "the jews" of the East European imagination. The final part of the course will explore the experience of Jewish cultural assimilation in European societies, which forced individuals of Jewish extraction to confront the Christian and post-Christian discourse of "jewish" difference. All readings are in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA303H1 - Literary Imagination and Jewish Identity in Modern Europe

Hours: 24S

An exploration of Central and East European authors writing in different languages but united by Jewish ancestry. We examine the responses of artists and intellectuals of Jewish extraction (Sholem Aleichem,

Babel, Bialik, Heine, Kafka, Mandelshtam, Sforim, Zhabotinskii, etc.) to cultural secularization and modernity. Taught in English. Readings in English.

Recommended Preparation: [SLA302H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA318H1 - City of Saints and Sinners: Kyiv through the Centuries

Hours: 24L

Captivating and elusive: the "new Jerusalem," Yehupets, a "Slavic Pompeii" and frontier city. This course examines Kyiv through works of literature, visual arts, architecture, and popular culture that reveal Ukrainian, Russian, Jewish, and Polish versions of the city. Gogol, Sholem Aleichem, Bulgakov, Vynnychenko, and many others. Taught in English, all readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA325H1 - Magic Prague

Previous Course Number: SLA445H1

Hours: 24L

Inspired by Angelo Ripellino's "Magic Prague," this class explores Prague as a palimpsest of different genres in works by Jan Neruda, Franz Kafka, R.M. Rilke, G. Meyrink, G. Apollinaire, B. Hrabal and others. Selected secondary texts illuminate questions of literary cityscapes, center and margins, multiculturalism and nationalism and magic. Readings in English and for the specialists in the original.

Prerequisite: Completion of 4.0 credits

Exclusion: [SLA445H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA330H1 - Old Church Slavonic

Previous Course Number: SLA330Y1

Hours: 36S

Structure and history of the first Slavic literary language. Reading and linguistic study of Old Slavonic texts.

Recommended Preparation: Two years of any Slavic language

Breadth Requirements: Creative and Cultural Representations (1)

SLA331H1 - Modernism and Visual Arts

Hours: 24S

Synthesis of visual arts, music, and literature in the late Russian Empire-early Soviet Union. Baba Yaga's hut and levitating sculptures; symphony in words and the language of stars; from princesses and puppets to the first peeks into the fourth dimension. Kandinsky, Bely, Zamyatin, Malevich, and many others. Taught and read in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA333H1 - Animated Film in Europe

Previous Course Number: SLA233H1

Hours: 24L

Trends in the history of European animated film, focusing on Central and Eastern European cinematic traditions. Aesthetics of animated image and peculiarities of animation as an art form. Films are analyzed in their artistic, cultural and political contexts. Taught in English, English subtitles.

Exclusion: [SLA233H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

JSM354H1 - Stone Books to Sky Books: The Book as Institution, Commerce and Art

Previous Course Number: SLA254H1

Hours: 24L

Evolution of the book and printed media in Central and Eastern Europe: legends (and forgeries) of ancient letters, mediaeval illuminated manuscripts, forbidden and "supernatural" books, hand-written and painted books of modernist and avant-garde artists, books as a way of living and dying. Readings in English.

Prerequisite: 4.0 credits

Exclusion: [SLA254H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA425H1 - Docufictions: Cinema, Authenticity, and Theory

Hours: 48L

This seminar will investigate how filmmakers and theorists have related the categories of fact and fiction to the production of films in Russian and (post-) Yugoslav cinemas. At the center of our inquiry will be the history and theory of cinematic authenticity, historical referentiality, and reality effects. Course work includes film viewings outside of class meeting times. Jointly offered with a graduate level course.

Prerequisite: 9.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

SLA435H1 - Contemporary East European Cinemas

Hours: 24L

This course will examine stylistic innovations and production practices in contemporary national cinemas of Eastern Europe through the framework of film theory and critical writing concerned with cinema's audiovisual appeal to viewers, as well as questions of nationalism, historical memory, and the transitions to democracy and capitalism in the region.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

SLA492H1 - Race, Empire, Gender in Eastern Europe and Russia

Hours: 24S

This course examines recent scholarship dedicated to race, empire, and gender in Eastern Europe and Russia. The course will explore theoretical texts (e.g. decolonial criticism, "second world" feminisms), scholarship on particular case studies (e.g. Catherine Baker's 2018 *Race and the Yugoslav Region*), and literature and art that speaks to these issues from the perspective of the East European, Russian, and Soviet experience. We will explore oft-sidelined topics, such as ideologies of race and historicizing whiteness as a colonial formation. The aim of the course is to address some of the silences within Slavic studies by foregrounding the complicated political legacies of the region.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

SLA498Y1 - Independent Studies

A year-long research project (primarily for majors in Slavic POSTs) on an approved major topic in a Slavic literature or culture, or Slavic linguistics, supervised by one of the Department's instructors. Not eligible for CR/NCR option.

Prerequisite: Permission of the Department

SLA499H1 - Independent Studies

A semester-long research project (primarily for majors in Slavic POSTs) on an approved major topic in a Slavic literature or culture, or Slavic linguistics, supervised by one of the Department's instructors. Not eligible for CR/NCR option.

Prerequisite: Permission of the Department

Czech and Slovak

SLA105Y1 - Elementary Czech

Hours: 96P

Grammar, composition, and conversation. Readings from Czech literature. Open only to students with little or no knowledge of the language.

Breadth Requirements: Creative and Cultural Representations (1)

SLA204Y1 - Intermediate Czech

Hours: 96P

Using selected texts of diverse styles, this class surveys Czech grammar and introduces various aspects of syntax, composition and translation. Special attention will be paid to oral practice.

Exclusion: SLA205H1

Breadth Requirements: Creative and Cultural Representations (1)

SLA215H1 - Czech and Slovak Cultures

Hours: 24L

Some of the most important features of Czech and Slovak cultural history are introduced in a survey of the national myths, traditions and cultural trends. (Offered every three years)

Exclusion: SLA215Y1

Breadth Requirements: Society and its Institutions (3)

SLA225H1 - Czech and Slovak Cinema

Hours: 24L

Czech and Slovak cinema of the sixties, generally known as the Czechoslovak New Wave, represents the ways the cinematographers viewed the past, examined the present and escaped into the world of fantasy. In addition, we will examine several theoretical, historical and cultural aspects of national culture and international cinematography.

Breadth Requirements: Creative and Cultural Representations (1)

SLA335H1 - Lifting the Iron Curtain: Czech Culture between 1960 and 1989

Hours: 24L

This class explores the subversive power of literary, cinematic, and theatrical experiments of the 1960s and confronts them with the development of Czech culture during the so-called normalization that lasted until 1989. Topics include literary texts, cinema, and fine arts at home and in exile. Taught in English, readings in English and in the original.

Breadth Requirements: Creative and Cultural Representations (1)

SLA405H1 - On the Waves of the Avant-garde and Beyond: Czech Literature of the 20th Century

Previous Course Number: SLA405Y1

Hours: 24S

The experiments of the 1920s serve as a point of departure for studies in Czech culture from the early 20th century to the present artistic innovations. Readings include works by Jaroslav Seifert, Karel Teige, Karel Čapek, F. Langer, V. Nezval, M. Kundera, V. Linhartová

and others. (Offered every three years). Readings in Czech.

Prerequisite: SLA305H1 or permission of the instructor

Exclusion: SLA405Y1

Breadth Requirements: Creative and Cultural Representations (1)

Polish

SLA106H1 - Polish for Beginners I

Hours: 24L/24P

The course is aimed at a wide range of students with a general interest in Polish but no prior knowledge. A communicative based approach will be used throughout the course, where all four skills (speaking, reading, listening, and writing) will be practised, with the main emphasis on speaking. Students will engage in interactive language activities, participating in group and pair work according to a syllabus based on systematic grammatical progression.

Exclusion: SLA106Y1, SLA116H1

Breadth Requirements: Creative and Cultural Representations (1)

SLA116H1 - Polish for Beginners II

Hours: 24L/24P

The course is aimed at a wide range of students with a general interest in Polish who have already completed SLA106H or who have comparable basic knowledge of Pol. A communicative based approach will be used throughout the course, where all four skills (speaking, reading, listening, and writing) will be practised, with the main emphasis on speaking. Students will engage in interactive language activities, participating in group and pair work according to a syllabus based on systematic grammatical progression.

Prerequisite: SLA106H1 or permission of instructor

Exclusion: SLA106Y1

Breadth Requirements: Creative and Cultural Representations (1)

SLA206H1 - Intermediate Polish I

Hours: 12L/36P

Students who completed SLA106H1 and SLA116H1 or who have comparable basic knowledge of Polish further

develop their speaking, listening, reading and writing skills by revising, consolidating and building on their knowledge. Upon completion, they will be able to communicate in more advanced everyday situations and have substantial familiarity with Polish grammar.

Prerequisite: SLA106Y1 or (SLA106H1 and SLA116H1)

Exclusion: SLA206Y1

Breadth Requirements: Creative and Cultural Representations (1)

SLA207H1 - Intermediate Polish II

Hours: 12L/36P

Students with a general interest in Polish who have completed SLA206H1 or who have a comparable level of Polish further develop their speaking, listening, writing, and reading skills by revising, consolidating, and building on their knowledge. Upon completion, they will be able to communicate in more advanced everyday situations and have substantial familiarity with Polish grammar.

Prerequisite: SLA206H1 or permission of instructor

Exclusion: SLA206Y1

Breadth Requirements: Creative and Cultural Representations (1)

SLA216H1 - Introduction to Polish Culture

Hours: 24L

Major cultural traditions, historical processes, myths, and figures that have shaped and redefined Polish civilization and national identity are problematized and contextualized with the help of works of literature, history, philosophy, political science, music, visual and performing arts. Readings in English (also available in Polish). (Offered in alternate years)

Breadth Requirements: Creative and Cultural Representations (1)

SLA226H1 - Film and Ethics: Polish Cinema

Hours: 24L

The Polish School in cinema, its predecessors and successors, their artistic accomplishments, major theoretical and thematic concerns, and their place on the map of European cinema. Films of Ford, Wajda, Polanski, Konwicki, Borowczyk, Has, Kawalerowicz, Zanussi, Kieslowski, and of the new generation of Polish film

makers. Films and discussions in English. (Offered every three years)

Breadth Requirements: Creative and Cultural Representations (1)

SLA236H1 - Polish Culture in 10 Images

Hours: 8S

We examine the most important aspects of Polish historical experience and cultural identity by looking at ten iconic images from Polish culture. These images may include a historical painting by Matejko, a photo of the Solidarity strikes in 1980, a screenshot from a Wajda film, or a literary passage from a Gombrowicz novel. Apart from serving as an introduction to Polish cultural studies, this course provides students with analytical tools to read diverse cultural texts. This is a blended course combining online modules with four on-site discussion meetings per semester.

Breadth Requirements: Creative and Cultural Representations (1)

SLA266H1 - War and Culture

Hours: 24S

Poland and Europe 1914-1945. As we commemorate the centenary of the outbreak of WWI, this cataclysmic event that launched the 20th century and was followed by another total war soon after still defines our view of the world and understanding of it. It may be time now to look anew at how various forms of expression, including literature, film, theatre, painting and sculpture produced during the two wars, between them or many decades later deal with the extreme and everyday experiences, with shattered worlds of individuals, ethnicities, and nations.

Prerequisite: SLA216H1 or permission of the instructor

Breadth Requirements: Creative and Cultural Representations (1)

SLA306H1 - Conversations-Inspirations: Everyday Polish

Hours: 48P

Through a series of thematic modules based on everyday communicative situations in contemporary Poland students develop Polish language skills in the four linguistic competencies: listening, reading, writing, and speaking. The course is based on a communicative-functional approach to language. It means that even

though students are regularly exposed to new grammatical structures, their work focuses primarily on practical, diverse uses of language in real-life situations.

Prerequisite: [SLA206Y1](#) or [SLA207H1](#) or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

SLA336H1 - Let's Talk! Advanced Polish

Hours: 48P

Students expand their practical knowledge of Polish by engaging with online media and current issues in culture and society. They enrich their vocabulary, grammatical structures, and use of diverse stylistic registers while fine-tuning reading, writing, listening, and speaking skills.

Prerequisite: [SLA306H1](#) or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

SLA346H1 - Communism and Culture

Hours: 24S

Probes the paradoxes of politics, culture and everyday life by analyzing the complex coexistence of art and literature with changing cultural politics in a totalitarian and post-totalitarian system, with simplistic ideology and political dissent, and with prevailing myths about the West and the East. Readings in English (Polish for majors).

Recommended Preparation: [SLA216Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA356H1 - What's New? Polish Culture Today

Hours: 24S

The amazing cultural transformations of Poland in the last fifteen years within a changing Europe. The impact of these changes on Poland's social consciousness and perception of identity, history, and nationhood. The most recent literature, fine arts, music, and popular culture. Readings in English (Polish for majors).

Recommended Preparation: [SLA216Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA406H1 - Transgressions: Drama, Theatre, Performance

Hours: 24S

Study of drama as a literary and theatrical genre in its thematic and formal diversity in Polish literature from the 16th to the 20th century is combined with investigations of the role of the theatre as cultural institution in different periods of Polish history. Readings in English (in Polish for students in the major program). (Offered every three years)

Exclusion: [SLA406Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA426H1 - Polish for the 21st Century

Hours: 48P

Polish language course for heritage speakers and advanced students who want to master the language through interactions with broad and diverse cultural materials such as mass and popular culture, contemporary literature, film, and theatre, mass media and the Internet.

Prerequisite: [SLA306H1](#), [SLA336H1](#) or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

SLA427H1 - Polish Culture for the Curious

Hours: 24S

The fourth year seminar whose specific topic is decided depending on the needs of the students and the interests of guest and permanent instructors.

Prerequisite: [SLA216Y1](#) or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

SLA436H1 - Rebels, Scoffers, and Jesters: Polish Culture from Different Perspectives

Hours: 24S

An advanced course on artistic, political, aesthetic, philosophical, and ideological dissenters who questioned, undermined, and redefined the main traditions in Polish culture from the 18th to the 21st centuries. Readings in English (Polish for majors).

Prerequisite: SLA216Y1

Recommended Preparation: SLA336H1

Breadth Requirements: Thought, Belief and Behaviour (2)

Russian

SLA100H1 - Elementary Russian I

Hours: 60P

Basic features of the grammar. Acquisition of essential vocabulary for practical conversation and for comprehension. Development of reading and writing skills. (May not be taken by students who, in the judgment of the Department, qualify for entry into SLA210H1 or SLA220Y1).

Exclusion: native speakers of Russian and heritage speakers of Russian (unless permitted by the instructor).

Breadth Requirements: Creative and Cultural Representations (1)

SLA101H1 - Elementary Russian II

Hours: 60P

Basic features of the grammar. Acquisition of essential vocabulary for practical conversation and for comprehension. Development of reading and writing skills. (May not be taken by students who, in the judgment of the Department, qualify for entry into SLA210H1 or SLA220Y1).

Prerequisite: SLA100H1 or permission of instructor

Exclusion: native speakers of Russian and heritage speakers of Russian (unless permitted by the instructor).

Breadth Requirements: Creative and Cultural Representations (1)

SLA121H1 - Russian Cultural History in Twelve Images

Hours: 24L

Russian Cultural History in Twelve Images An introductory survey of Russian cultural history through key images, exploring the historical, intellectual, artistic, and mythical

significance of these images in Russian cultural identity and in foreign perceptions. Among the images are: Rublev's "Trinity," The Bronze Horseman, the Cathedral of Christ the Savior, and Tatlin's Tower. Taught in English, readings in English. No prior familiarity with Russian language or culture is expected.

Breadth Requirements: Creative and Cultural Representations (1)

SLA210H1 - Russian for Heritage Speakers

Hours: 48P

This course is designed for students with Russian background, students raised in homes where Russian is/was spoken, who speak or merely understand basic Russian but are otherwise illiterate in Russian (cannot/have difficulty reading or writing). This course helps heritage learners of Russian develop/maintain writing and reading skills as well as develop cultural literacy. **(Online course in 2011-2012).**

Prerequisite: Permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

SLA211H0 - Russian in Action

Hours: 48P

Emphasis on expansion of vocabulary, developing conversational and listening skills, and intensive practice in real-life situations. Offered as part of Summer Program in Russia. Not eligible for CR/NCR option.

Prerequisite: SLA101H1 or SLA210H1

Breadth Requirements: Creative and Cultural Representations (1)

SLA212H1 - The Russian Novel

Hours: 24L/12T

Introduction to the Russian novelistic tradition at the height of its creative power. We examine the Russian novel's universal appeal and influence, and its impact on modern art and thought. Authors may include (depending on instructor) Gogol, Turgenev, Dostoevsky, Tolstoy, Belyi, Nabokov, Pasternak, Solzhenitsyn. Taught and read in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA220Y1 - Intermediate Russian

Hours: 120P

Continuation of development of proficiency in speaking, reading, listening and writing. Review the basic and learning of new grammatical and syntactical structures, study of word formation and acquisition of active vocabulary. Reading of classical, contemporary, adapted, and non-adapted literary and mass-media texts. Culture and listening through animation.

Prerequisite: [SLA101H1](#)

Exclusion: native speakers of Russian, heritage speakers of Russian (unless permitted by the instructor), [SLA210H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA221H1 - Speak Like a Russian

Hours: 24P

A course on practical phonetics. Get your Russian sounds right. Improve your intonation. Reduce your foreign accent.

Prerequisite: [SLA100H1](#), [SLA101H1](#)

Corequisite: [SLA220Y1](#) or [SLA320Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA224H1 - Russian-Jewish Writing

Hours: 24L

This course explores the writings of Russian authors of Jewish origin. Subjects include: assimilation; identity; the existence or non-existence of Russian – Jewish literature. The works studied may vary from year to year.

Breadth Requirements: Creative and Cultural Representations (1)

SLA234H1 - Russian and Soviet Cinema

Hours: 12L/24P

A survey of the Russian cinematic tradition from its beginnings through the first decade following the disintegration of the USSR. The course examines the avant-garde cinema and film theory of the 1920s; the totalitarian esthetics of the 1920s-1940s and the

ideological uses of film art; the revolution in film theory and practice in the 1950s-1960s; cinema as medium of cultural dissent and as witness to social change. Students also acquire basic skills of film analysis. Taught in English, all films subtitled in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA245H1 - The Golden Age of Russian Literature

Hours: 24L

A survey of Russian literature from 1820-1900. Topics include: Romanticism and Realism; the myth of St. Petersburg; the Russian Empire and its borders; the individual and society; man and nature; the “woman question”; freedom and rationality. Readings may include: Pushkin, Lermontov, Gogol, Goncharov, Tolstoi, Turgenev, Dostoevskii, Saltykov-Shchedrin, Chekhov. Taught and read in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA252H1 - Russian Short Fiction

Hours: 12T/24S

An exploration of the elements of the short story through close readings of works by 19th and 20th century writers. Stories in translation by Pushkin, Gogol, Turgenev, Dostoevsky, Chekhov, Olesha, Babel, and others. All readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA260H1 - Constructing Space: A History of Russian Art and Architecture

Hours: 24L

Chronologically organized and covering a period of ten centuries, from the eleventh to the twenty-first, the course has a special focus, the rendering of space and perspective. Beginning with the so-called “reverse perspective” of Russian Icons and the devotional world of churches and cathedrals, continuing with the geometrically organized, rational space of the 18th century and St. Petersburg, and moving on to the distorted reality of the Russian avant-garde and Socialist Realism’s attempt at reproducing reality “as it is,” the course concludes by asking where this oscillating

acceptance and rejection of illusion leaves us in the 21st century. Consideration of paintings, buildings, sculptures, selected literary texts and films.

Recommended Preparation: [FAH102H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA263H1 - Studies in Russian-French Cultural History

Hours: 24L/12T

A survey of Russian-French intellectual, literary, and artistic contacts and mutual influences, from the 18th through the 20th centuries. Topics may include: transnational circulation of genres, styles, aesthetic programs, philosophical concepts, and political ideas; cultural tourism; cultural appropriation and misreading; direct contacts between French and Russian intellectual and artistic elites. Lectures in English. Students taking the course from the French Department will read the texts in French, have tutorials in French, and write assignments in French. All others will read texts in English, have tutorials in English, and write assignments in English.

Breadth Requirements: Creative and Cultural Representations (1)

JSH300H1 - Literature and History in Russia

Hours: 24L

History and Literature were always interconnected in Russia. Writers not only sought to reflect the society around them, but were themselves often social critics and political figures. The course examines key texts in Russian literary tradition both as works of art and as primary sources for the historian. All readings in English.

Recommended Preparation: [HIS250H1/ HIS250Y1](#) or [SLA240H1/ SLA241H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA300H1 - Russian Literature in the Age of Empire

Hours: 24L

Survey of major movements and institutions, familiar and less studied writers and intellectuals of the first half of the nineteenth century. Imperial culture between and within

Europe and Asia. Romanticism as literary movement, cultural ideology, and lifestyle. Emergence of literature as profession and public sphere. Literature and nationalism. Taught in English, all readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA310H1 - Russian Literature Between Tradition and Modernity

Hours: 24L

Survey of major movements and institutions, genres, familiar and less studied writers and intellectuals of the second half of the nineteenth century. Imperial culture in the reform era. Realism as literary movement, professionalization of literature and criticism, the novel and serialization, the short story and drama. Taught in English, all readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA311H1 - Gogol

Hours: 12L/12S

Fantastic and grotesque works by the most hilarious, obsessive, and delusional character in Russian literature, who teased, fascinated, and polarized readers. Gogol's writings are examined through various theoretical approaches. Includes cinematic (Taras Bulba, Viy, Overcoat) and musical (Shostakovich's "Nose") re-creations of Gogol's works. Taught in English, all readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA312H1 - Nabokov

Hours: 24S

A study of Vladimir Nabokov's novels written in Europe and the United States. Special attention is paid to the nature and evolution of Nabokov's aesthetics; the place of his novels in European and American literary traditions; Nabokov's creative uses of exile to artistic, philosophical and ideological ends; the aesthetic and cultural implications of the writers' switch from Russian to English. Novels studied: Defense, Despair, The Gift, The Real Life of Sebastian Knight, Lolita, Invitation to a Beheading, Pale Fire. Taught in English, all readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA314H1 - Dostoevsky

Hours: 24L

Crime and Punishment, The Brothers Karamazov, and short works. Dostoevsky's political, psychological, and religious ideas as they shape and are shaped by his literary art. Readings in English. Taught in English, all readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA317H1 - Tolstoy

Hours: 24S

War and Peace or Anna Karenina, and some shorter works. Tolstoy's political, psychological, and religious ideas as they shape and are shaped by his literary art. Taught in English, all readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA320Y1 - Advanced Russian

Hours: 120P

A survey of Russian culture and history of the 20th century through non-adapted readings and film. Development of advanced speaking, reading, listening and writing skills on a wide variety of topics. Work on grammar and vocabulary building. Subordinate and relative clauses, aspect, verbs of motion, participles and gerunds. Class is conducted primarily in Russian.

Prerequisite: SLA220Y1 or permission of instructor
Exclusion: native speakers of Russian, heritage speakers of Russian (unless permitted by the instructor), SLA210H1
Breadth Requirements: Creative and Cultural Representations (1)

SLA321H1 - Conversational Russian

Hours: 36P

Expansion of vocabulary and development of conversational skills. Discussion of a variety of topics (history, culture, art, politics, law, social and economic

problems, contemporary events). Class is taught in round-table format.

Prerequisite: SLA220Y1 and permission of instructor
Exclusion: native speakers of Russian and heritage speakers of Russian (unless permitted by the instructor).
Breadth Requirements: Creative and Cultural Representations (1)

SLA322H1 - News in Russian

Hours: 24P

Language, life and the media in Russian. The course will be based on reading newspapers, listening to media, and discussing contemporary events in Russian.

Prerequisite: SLA220Y1
Exclusion: Heritage and native speakers of Russian
Breadth Requirements: Creative and Cultural Representations (1)

SLA323H1 - The Mysteries of Russian Revealed

Hours: 12P/12S

This course introduces Russian's sounds, structures, and alternations. Russian's tricky morphologic alternations and their historical causes are explored while students master the hidden encoding of forms through study of the writing system, root structures, and variation.

Prerequisite: SLA220Y1 or permission of instructor
Breadth Requirements: Creative and Cultural Representations (1)

SLA334H1 - Film Genre in Russia

An examination of the understanding and practice of film genre in Russian and Soviet cinema. Various genres and generic hybrids – comedy, melodrama, action, war, horror, fantasy, etc. – are studied in the context of critical literature on the problem of film genre and against the backdrop of international cinematic traditions. Taught in English, all films subtitled in English.

Recommended Preparation: CIN105Y1, SLA234H1
Breadth Requirements: Creative and Cultural Representations (1)

SLA342H1 - Theatricality and Spectacle in the History of Russian Culture: From Jesters to Meyerhold

Hours: 24S

We will study Russian public spectacles from the eighteenth century imperial court festivities all the way through the Revolutionary festivals of the 1920s. We will also look at the 2003 celebration of the 300 year anniversary of St. Petersburg and the 2014 Sochi Olympics. Special emphasis on those figures who influenced twentieth century theatre and film in the West (such as Konstantin Stanislavsky, Vsevolod Meyerhold, Sergei Diaghilev). All readings in English. No knowledge of Russian required.

Breadth Requirements: Creative and Cultural Representations (1)

SLA343H1 - Studies in Late Soviet Culture

Hours: 24L

A survey of artistic and intellectual life in the USSR from the post-Stalinist "Thaw" period to the collapse of the Soviet empire and its cultural aftermath in the 1990s. Topics include: the recovery of suppressed cultural memory; the fluid boundaries between official and unofficial cultures; internal and external exile; Aesopian language; alternative modes of creation and dissemination (samizdat, tamizdat, unauthorized exhibitions and concerts, etc.); Russian conceptualism and post-modernism. Taught in English, readings in English.

Recommended Preparation: [SLA245H1](#), [SLA246H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA345H1 - Russian Modernism

Previous Course Number: SLA246H1

Hours: 24L

A history of Russian modernist culture from the 1890s to 1940. Topics include: Russia's fin-de-siècle art and thought in European context; the aesthetic and philosophical evolution of Russian modernism as a cultural community; modernist experiments in literature; conservative reactions to modernism before and after the communist takeover in Russia; the modernist strategies of survival. Taught and read in English.

Exclusion: [SLA246H1](#)

Recommended Preparation: [SLA245H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA367H1 - Chekhov

Hours: 24S

Selected stories, plays; stylistic, structural, and thematic analysis, literary and historical context, influence in Russia and the West. Taught in English, all readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA400H1 - Medieval and Early Modern Literature of East Slavic Peoples

Hours: 24S

Explores the development of the types of writing (e.g. chronicles, vitae, epics, tales, poetry) used to capture the cultural, political, religious, and aesthetic experiences of Mediaeval Rus' and early modern East Slavic peoples (from the 11th to 17th century). Readings in English. Where appropriate, majors will read some excerpts in the original.

Prerequisite: 4.0 credits

Recommended Preparation: Some reading knowledge of Russian desirable but not required

Breadth Requirements: Creative and Cultural Representations (1)

SLA404H1 - Russia Across Centuries I

Hours: 24S

A survey of Russian Culture from the tenth century to the early nineteenth century. Topics may vary by year. Includes literature, music, art, architecture, dance, film, history and politics. Taught in Russian, all readings are in Russian. Fosters advanced language skills of conversational fluency, listening comprehension, writing and composition, expanded vocabulary, recognition of stylistic registers, and advanced syntax. Students will read literary and non-literary texts as well as watching contemporary films and television programs.

Prerequisite: [SLA320Y1](#) or [SLA210H1](#)

Recommended Preparation: [SLA410H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA410H1 - Russian for Heritage Speakers II

Hours: 48P

The course helps advanced heritage learners further to develop their active command of Russian. Special focus on speaking and writing skills, as well as cultural competence. Taught in Russian, all materials in Russian.

Prerequisite: SLA210H1 or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

SLA412H1 - History of Russian

Hours: 24P

Historical phonology, morphology, accentuation of Russian in its East Slavic context. Further topics include dialectology and historical syntax. Readings of a variety of Old Russian-East Slavic texts in the original.

Prerequisite: Permission of instructor.

Recommended Preparation: Good reading knowledge of Russian and/or SLA320Y1 (Advanced Russian).

Breadth Requirements: Creative and Cultural Representations (1)

SLA413H1 - Pushkin

Hours: 24S

Select lyrical poetry, narrative poems, drama, and prose. Topics may include: poet and society; poetry, nation, and empire; Pushkin's life, death, afterlife, and cultural mythologies; Pushkin in visual arts, music, and film. Readings in Russian.

Prerequisite: SLA320Y1 or permission of the instructor.

Breadth Requirements: Creative and Cultural Representations (1)

SLA414H1 - Russia Across Centuries II

Hours: 24S

A continuation of SLA404H1. Survey of Russian culture from 1917 to the present. Topics may vary by year. Includes material on literature, music, art, architecture, dance, film, history and politics. Taught in Russian, all readings in Russian. The course fosters advanced language skills of conversational fluency, listening comprehension, writing and composition, expanded

vocabulary, recognition of stylistic registers, and advanced syntax. Students will read literary and non-literary texts and watch contemporary films and television programs.

Prerequisite: SLA320Y1 or SLA210H1

Recommended Preparation: SLA410H1, SLA404H1

Breadth Requirements: Creative and Cultural Representations (1)

SLA415H1 - Studies in Russian Literature of the 18th Century

Hours: 36S

The prose, poetry and dramaturgy of the most prominent literary figures of the eighteenth century, including Karamzin, Lomonosov, Fonvizin, Derzhavin and Krylov; aspects of literature during the reign of Peter I; literature and satirical journalism during the reign of Catherine II. (Taught in Russian)

Prerequisite: Permission of the instructor

Breadth Requirements: Creative and Cultural Representations (1)

SLA420Y1 - Studies in Russian Syntax and Stylistics

Hours: 96P

Syntactic structures and their relation to meaning and style, word order, intonation. Consolidation of morphology, vocabulary building through extensive reading. Translation, composition, and oral practice.

Prerequisite: SLA320Y1 or permission of instructor

Exclusion: native speakers of Russian, including SLA210H1

Breadth Requirements: Thought, Belief and Behaviour (2)

SLA421H1 - Introduction to Russian Poetry and Poetics

Previous Course Number: SLA424Y1

Hours: 36S

A study of the main principles of Russian prosody (meter, rhythm, rhyme, phonetic instrumentation, verse, stanza, genre) in relation to the creation of meaning of a poetic text. The formal aspects of Russian versification are examined in their historical evolution from the 18th century to the present, in both "classical" and "experimental"

poetic modes. Taught in Russian, readings in Russian and English.

Prerequisite: [SLA320Y1](#)

Exclusion: [SLA424Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA422H1 - Nineteenth-Century Russian Poetry

Previous Course Number: SLA424Y1

Hours: 36S

A survey of the golden age of Russian poetry with special attention to the evolution of verse forms and poetic genres. In this course students acquire advanced skills in the close reading of poetic forms and in their contextual historical analysis and interpretation. Taught in Russian, readings in Russian and English.

Prerequisite: [SLA320Y1](#)

Exclusion: [SLA424Y1](#)

Recommended Preparation: [SLA421H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA423H1 - War and Peace

Hours: 36S

War and Peace in depth, and from various points of view, literary, political, philosophical, historical, and psychological. Various critical approaches; cognate literary works. Students are expected to have read the novel before the course begins. Readings in English.

Recommended Preparation: [SLA317H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA430H1 - Advanced Russian Writing Skills

Hours: 48P

The course will support students in gaining proficiency in presentational mode and in improvement of language competence for communication in academic contexts. Students will elevate their skills to the advanced level. Emphasis is on grammatical structures, syntax, lexicon, content organization, construction of complex presentation and expression of scholarly ideas and critical thought with accuracy and consistency in use of the Russian language. Offered online only.

Prerequisite: [SLA320Y1](#) or [SLA210H1](#)

Recommended Preparation: Advanced reading, writing, listening ability in Russian.

Breadth Requirements: Creative and Cultural Representations (1)

SLA433H1 - Anna Karenina

Previous Course Number: SLA324H1

Hours: 36S

Anna Karenina in depth, and from various points of view, literary, political, philosophical, historical, and psychological. Various critical approaches; cognate literary works. Students are expected to have read the novel before the course begins. Readings in English.

Exclusion: [SLA324H1](#)

Recommended Preparation: [SLA317H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA434H1 - Dostoevsky in Literary Theory and Criticism

Hours: 24S

Explores Dostoevsky's works through the lens of Russian and Western novel theory. Theorists include: Viacheslav Ivanov, Georg Lukacs and Mikhail Bakhtin. Topics include: genre, history and modernity; the novelistic narrator; novelistic plot; novelistic narrative; time and space; the generic history and prehistory of the novel; the novel and the self; the novel's relation to the present; novelistic subgenres including the Bildungsroman; the novel's simultaneous status as fragment and totality; and the particular and the universal in novelistic representation. Taught in English, readings in either Russian or English.

Recommended Preparation: [SLA314H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA449H1 - Russian Thinkers

Hours: 36S

Social and political change, national and spiritual destiny in philosophical, journalistic and critical writings. From Slavophiles and Westernizers to revolutionary and apocalyptic thought. Reflections on Russia's position between Europe and Asia and on the place of Russia's East Asian neighbors in its history and culture. Taught in English, readings in English.

Breadth Requirements: Thought, Belief and Behaviour (2)

SLA463H1 - Themes in Russian Realism

Hours: 24L/12S

What is distinctive about Russian realism? The course will examine nineteenth century Russian realist fiction in relation to various theoretical approaches, from Erich Auerbach to Roman Jakobson. We will read contemporary works of criticism and thought from Russia and Europe that may have influenced it.

Prerequisite: 1.0 credit in literature

Breadth Requirements: Creative and Cultural Representations (1)

South Slavic: Bosnian, Croatian, Macedonian, and Serbian

SLA107Y1 - Elementary Bosnian, Croatian, and Serbian

Hours: 96P

Basic phonology, orthography, morphology and syntax of Bosnian, Croatian and Serbian. Development of the four basic language skills: reading, writing, listening, and speaking. Acquisition of essential vocabulary for practical conversation and for comprehension.

Exclusion: native speakers of BCS, [SLA257Y1](#), [SLA237Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA109Y1 - Elementary Macedonian

Hours: 96P

The basic features of the grammar of the Macedonian literary language. Acquisition of essential vocabulary for practical conversation and for comprehension. Development of reading and writing skills. Open only to students with little or no knowledge of the literary language. (Offered in alternate years).

Breadth Requirements: Creative and Cultural Representations (1)

SLA209H1 - Intermediate Macedonian

Hours: 48P

This course completes the basics of Macedonian grammar including the wide variety of past tenses, complex sentence structures, and word formation.

Prerequisite: [SLA109Y1](#) or permission of instructor

Exclusion: [SLA209Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA213H1 - Reading Macedonia: A Cultural Exploration

Hours: 48P

This course explores Macedonian culture as read through its literature, film, cuisine, music, folklore, architecture, and new media.

Prerequisite: [SLA209H1](#) or permission of instructor

Exclusion: [SLA209Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA217H1 - Cultural History of the South Slavs

Hours: 24L

Works of literature, history, music, and visual arts are examined in order to explore the complex cultural legacy of the Balkans, an area marked by Byzantine, Ottoman, and Austro-Hungarian colonial presence. The course will familiarize students with major cultural traditions, myths, and historical flashpoints. Readings in English.

Exclusion: [SLA217Y1](#), [SLA227Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA227H1 - South Slavic Literature

Hours: 24L

A survey of the most significant twentieth-century novels from Croatia, Serbia and Bosnia through a chronological selection of literary texts (poems, plays, novels) from the eighteenth to the twentieth century. The course places South Slavic literary developments within the broader context of European intellectual history as well as Balkan

cultural and political life. Taught in English, all readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA247H1 - Cinema of the Balkans

Hours: 24L

An overview of the cinematic tradition in Yugoslavia, Greece, Albania, and Bulgaria from the 1960s to the present. Topics include revolution and socialism; cinema as activism; ideology and politics; sex and gender; war and trauma. Taught in English. All films with subtitles.

Exclusion: SLA427H1

Breadth Requirements: Creative and Cultural Representations (1)

SLA257H1 - Intermediate Bosnian, Croatian, and Serbian I

Hours: 48P

Systematic study of morphology and syntax. Intermediate composition and oral practice. Reading and translation of contemporary and more complex texts in BCS.

Prerequisite: SLA107Y1 or permission of instructor

Exclusion: SLA257Y1, SLA307Y1, SLA316Y1

Breadth Requirements: Creative and Cultural Representations (1)

SLA277H1 - Intermediate Bosnian, Croatian, and Serbian II

Hours: 48P

Continuation of SLA257H1. Systematic study of morphology and syntax. Intermediate composition and oral practice. Reading and translation of contemporary texts in BCS.

Prerequisite: SLA257H1 or permission of instructor

Exclusion: SLA257Y1

Breadth Requirements: Creative and Cultural Representations (1)

SLA337H1 - Advanced Bosnian, Croatian, and Serbian

Hours: 48P

Morphology, syntax, composition and translation, oral practice. Extensive reading, translation and analysis of contemporary Bosnian, Croatian and Serbian texts representing diverse styles.

Prerequisite: SLA257Y1 or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

SLA347H1 - The Imaginary Geography of the Balkans

Hours: 24S

This course examines the symbolic definitions of space in South Eastern Europe and the aesthetic, social, and political implications of these practices. It will draw on theories and the social construction of space to study cultural mapping through cartography, architecture, monumental sculptures, memorials, cemeteries, literature, and film.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: SLA227H1 or SLA217H1

Breadth Requirements: Creative and Cultural Representations (1)

SLA357H1 - Literature of Exile and Immigration

Hours: 24S

This course examines novels and short stories by writers from the former Yugoslavia (including Dubravka Ugrešić, Aleksandar Hemon) that thematize exile, migration, and displacement. Alongside literary works, we will read theoretical essays that speak to concepts of home, nation, and language. Taught in English. Readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

Ukrainian

SLA108Y1 - Elementary Ukrainian

Hours: 96P

Basic vocabulary and grammar for practical conversation and comprehension. Emphasis on communication. Development of reading and writing skills. Introduction to Ukrainian culture, history, and society through guided exposure to popular culture and media. Internet language modules complement in-class learning. Intended for students with little or no knowledge of the language.

Breadth Requirements: Creative and Cultural Representations (1)

SLA208Y1 - Intermediate Ukrainian

Hours: 96P

Development of proficiency in speaking, reading, listening, and writing. Mastering grammar and syntax and expanding vocabulary in key practical communication areas (such as family, travel, education). Exposure to contemporary Ukrainian culture and society through annotated literary texts, mass-media materials, and popular culture (song, film and TV, news). Internet language modules complement in-class learning.

Prerequisite: Permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

SLA218H1 - Ukrainian Literature and Culture

Previous Course Number: SLA218Y1

Hours: 24L

Starting from the medieval Kyivan Rus' and extending to contemporary Ukraine, the course explores Ukraine's most iconic literary and artistic works and provides insight into the complex historical and cultural legacies and multi-ethnic traditions in Ukrainian lands as they continue to impact contemporary society. Cultural myths critically examined. Literary works aligned with visual arts, film, and media.

Exclusion: SLA218Y1

Breadth Requirements: Creative and Cultural Representations (1)

SLA228H1 - 20th Century Ukrainian Fiction in Translation

Hours: 12L/12S

Most influential and daring works in English translation. From modernist sensibilities and avant-garde fervor of the revolutionary era, through socialist realism and dissident

writing, to the internationally acclaimed experimental prose of contemporary Ukraine. Authors include Kotsiubynsky, Vynnychenko, Pidmohylny, Khvyliovy, Andrukhovych, Zabuzhko, and Zhadan.

Recommended Preparation: any course in literature

Breadth Requirements: Creative and Cultural Representations (1)

SLA238H1 - Literature of the Ukrainian-Canadian Experience

Hours: 24S

A selection of literary texts depicting the experience and perceptions of Ukrainians in Canada from the first immigrants to the present. Texts include works originally written in English, French and Ukrainian, but all readings are in English. Authors include: Kiriak, Kostash, Ryga, Galay, Suknaski, Kulyk Keefer.

Recommended Preparation: any course in literature

Breadth Requirements: Creative and Cultural Representations (1)

SLA248H1 - Women and Women's Themes in Ukrainian Literature

Hours: 24S

This course examines the presentation of women and women's themes in works of Ukrainian literature. The subjects covered include: role models, freedom, socialism, nationalism, feminism, and sexuality.

Breadth Requirements: Creative and Cultural Representations (1)

SLA308H1 - Advanced Ukrainian

Previous Course Number: SLA308Y1

Hours: 48L

Development of advanced speaking, reading, listening, and writing skills on a wide range of topics by engaging with a variety of media: literature, film, popular culture, and social media. Building mastery of the fundamentals of grammar and syntax, expanding vocabulary, and mastering oral and written communication.

Prerequisite: SLA208Y1 or permission of instructor based on previous language knowledge by means of a placement test.

Exclusion: Fluent native speakers of Ukrainian, SLA308Y1

Breadth Requirements: Creative and Cultural Representations (1)

SLA328H1 - The Culture of Contemporary Ukraine

Hours: 24S

Contemporary Ukraine is an amalgam of various cultural traditions. This course examines its languages, religions, nationalities, literature, cinema, arts, print and broadcast media, regions, education, and social groups. Special attention is given to the factors that influence public perceptions of identity. All readings are in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA338H1 - Ivan Franko

Hours: 24S

Ivan Franko is one of the most important and innovative figures in the history of Ukrainian literature. This seminar explores a selection of the belletristic writings by this fascinating and prolific poet and novelist in the context of Ukrainian culture and politics in the Austro-Hungarian Empire. Taught in English. All readings are in English.

Recommended Preparation: Previous coursework in Ukrainian literature, e.g. [SLA218Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA358H1 - Breaking Away from Empire: Ukrainian Fiction Since Independence

Hours: 24S

This course traces the extraordinary development of Ukrainian prose since the collapse of the Soviet Union. We will explore postmodernist euphoria, colonial angst, cultural entropy, hooliganism, national identity, gender issues, and other aspects of modern Ukraine. All readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SLA428H1 - The Ukrainian Novel

Previous Course Number: SLA428Y1

Hours: 24S

Ukraine's culture, history, and society through the prism of the novel genre (including historical and social, magical and autobiographical, intellectual, and war novels). Romantic aspirations and realist dissections of social conditions, modernist challenges to literary and societal conventions, scriptures of social realism, and contemporary experiments with genre, narrative, language, gender, and fictionality. Readings in English; native speakers are encouraged to read in the original.

Prerequisite: Completion of 9.0 credits

Exclusion: [SLA428Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SLA429H1 - Shevchenko

Hours: 24S

A critical study of Taras Shevchenko. Life, works, and significance. Readings in Ukrainian.

Prerequisite: Permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

Sociology

Faculty List

Professors Emeriti

B. Baldus, Dr. Sc Pol
 Y.M. Bodemann, PhD
 M. Boyd, PhD, FRSC
 R. Brym, PhD
 B. Fox, PhD
 A.R. Gillis, PhD
 E.B. Harvey, PhD
 N.L. Howell, PhD
 C.L. Jones, PhD
 M.J. Kelner, PhD, LL D
 C. Kruttschnitt, MS, PhD
 D.W. Magill, PhD (N)
 H.M. Makler, PhD
 W.M. Michelson, PhD, FRSC
 J. Myles, PhD, FRSC
 J.G. Reitz, BS, PhD, FRSC
 L. Tepperman, PhD (N)
 I.M. Zeitlin, PhD (T)

Professor and Chair of the Department

S. Baumann, PhD

Associate Professor, Teaching Stream and Associate Chair (Undergraduate Studies)

C. Caron, PhD

Professor and Graduate Chair of the Department

M. Milkie, PhD

Associate Professor and Associate Chair (Graduate Studies)

D. Pettinicchio

Professors

S. Baumann, PhD
 J. Bryant, PhD
 R. Dinovitzer, PhD
 B.H. Erickson, PhD
 Y. Lee, PhD
 R. Levi, BCL, LLB, LLM, SJD
 I. Peng, PhD
 S. Schieman, PhD
 J. Veugelers, PhD
 S. Welsh, PhD
 B. Wheaton, PhD

Associate Professors

B. Berry, PhD
 A.I. Green, PhD
 J.K. Lee, PhD

V. Leschziner, PhD
 W.J. Magee, MS, PhD
 J. Taylor, PhD

Assistant Professors

S. Alegria, PhD
 M. Alexander, PhD
 J. Brensinger, PhD
 P. Dantzler, PhD
 F. Dokshin, PhD
 A. Eads, PhD
 J. Horowitz, PhD
 S. Newman, PhD
 H. Nicholson, Jr., PhD
 L. Ye, PhD

Associate Professor, Teaching Stream

C. Caron, PhD

Assistant Professor, Teaching Stream

M. McIvor, PhD

Introduction

Sociology's key principle is that patterned social relationships create opportunities for, and place constraints on, human action. The influence of this idea is widespread. New research agendas in law, literature, economics, and other disciplines reflect the notion that beyond individual motives, goals, values, beliefs and emotions, patterned social relationships help to make us who we are. Our courses and faculty research examine how patterned social relationships shape and are shaped by gender roles and families; health; immigration and ethnic relations; labour markets, work and social inequality; political structures and processes; crime, law and deviance; culture; cities; and networks, and communities.

To test explanations regarding the influence of social relationships on various aspects of human behaviour, sociologists collect and analyze observational, survey, experimental, and historical data. Accordingly, the sociological perspective and the research skills learned by studying sociology prepare students for a wide variety of careers in industry, government, education, politics, health and journalism. Medical, legal, and environmental fields report an increasing need for sociologists. Municipal, provincial and federal governments hire in areas like urban sociology, community relations, policy and planning, and statistical analysis. In private business, sociologists work in management consulting firms and polling organizations, as well as in labour relations and human resources.

A professional career in sociology requires training beyond the undergraduate level. However, the critical, analytical and research skills that undergraduate sociology students learn open many employment opportunities. Over a third of Canadian undergraduates in

sociology go on to be employed in business, finance and administrative occupations, and just under a third in government service, social science, and educational fields.

Associate Undergraduate Chair: Professor Christian Caron, 700 University Ave., 416-978-8263, christian.caron@utoronto.ca

Undergraduate Administrator: Donna Ragbir, 700 University Ave., 416-946-4064, sociology.undergraduate@utoronto.ca

Enquiries: 416-978-3412 (choose option 2)

Undergraduate Program Information and Course Descriptions: available at <https://sociology.utoronto.ca/>

Regarding Sociology Programs

Enrolment in sociology programs is limited. Consult the [Arts & Science Program Toolkit](#) for application procedures.

NOTE 1

Obtaining a combined average of 65% or more in [SOC100H1](#)+[SOC150H1](#) is required for entry into the sociology major and minor programs. Entry to the sociology specialist program at the end of the first year requires a minimum combined average of 80% in [SOC100H1](#)+[SOC150H1](#). Achieving the minimum grades does not guarantee acceptance into the programs. Credit for higher-level SOC courses will not waive these requirements.

NOTE 2

Transfer credits of SOC1**H without exclusion cannot be used to meet program admission or requirements.

Sociology Programs

Sociology Specialist (Arts Program) - ASSPE1013

Enrolment Requirements:

This is a limited enrolment program. Note there are different options depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more

credits. Students interested in the Sociology Specialist typically apply and enroll from the Sociology Major.

For students who have completed 9.0 or more credits:

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- [SOC201H1](#), [SOC202H1](#), and [SOC204H1](#)

To ensure that students admitted to the program will be successful, applicants with a final grade average lower than 70% in these required courses will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program.

Special Requirement

- Students must be enrolled in the Sociology Major (ASMAJ1013)

For students who have completed between 4.0 and 8.5 credits:

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- ([SOC100H1](#) and [SOC150H1](#))

To ensure that students admitted to the program will be successful, applicants with a final grade average lower than 80% in these required courses will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the [ASIP section of the Arts & Science Academic Calendar](#). Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Sociology Specialist in the Summer after Year 2.

Note:

Students cannot combine a Sociology Specialist program with another Sociology program (Major or Minor) for their

degree. **Credit for higher-level SOC courses will not waive these requirements.**

Completion Requirements:

(10.0 credits in Sociology)

1. SOC100H1 and SOC150H1
2. SOC201H1, SOC202H1, and SOC204H1
3. SOC251H1, SOC252H1, and SOC254H1
4. 2.0 SOC credits from 300-level "Program-Only" courses (SOC317H1 – SOC354H1; Offerings will vary from year to year.).
5. 1.0 SOC credit at the 400-level
6. An additional 3.0 credits in Sociology at the 200 or 300-level (1.0 of which must be taken at the 300-level, i.e., 2.0 credits at the 200 or 300-level and 1.0 at the 300-level).

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

NOTES:

1. **Students cannot take more than 1.0 credit at the 400-level without written permission from the Undergraduate Program Administrator.**
2. **Students cannot take more than 2.0 credits of the program-only courses without written permission from the Undergraduate Program Administrator.**

Sociology Major (Arts Program) - ASMAJ1013

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enroll.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- (SOC100H1 and SOC150H1)

To ensure that students admitted to the program will be successful, applicants with a final grade average lower than 65% in these required courses will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program.

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry, starting Fall 2024). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that the majority of students enter ASIP in Fall term of Year 2. Space is more limited for Year 3 entry. Students applying for Year 3 entry must have been admitted to the Sociology Major in the Summer after Year 2.

Note:

Students cannot combine a Sociology Major program with another Sociology program (Specialist or Minor) for their degree. **Credit for higher-level SOC courses will not waive these requirements.**

Completion Requirements:

(7.0 credits in Sociology)

1. SOC100H1 and SOC150H1
2. SOC201H1, SOC202H1, and SOC204H1
3. 1.0 credit from SOC251H1, SOC252H1, and SOC254H1
4. 1.0 SOC credit from 300-level "Program-Only" courses (SOC317H1 – SOC354H1; Offerings will vary from year to year.).
5. 0.5 SOC credit at the 400-level
6. An additional 2.0 credits in Sociology at the 200 or 300-level (0.5 of which must be taken at the 300-level, i.e., 1.5 credits at the 200 or 300-level and 0.5 at the 300-level).

Students in this program have the option to complete the Arts & Science Internship Program (ASIP) stream.

NOTES:

1. **Students cannot take more than a 0.5 credit at the 400-level without written permission from the Undergraduate Program Administrator.**
2. **Students cannot take more than 1.0 credit of the program-only courses without written permission from the Undergraduate Program Administrator.**

Sociology Minor (Arts Program) - ASMIN1013

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enroll.

Variable Minimum Grade Average

A minimum grade average is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- ([SOC100H1](#) and [SOC150H1](#))

To ensure that students admitted to the program will be successful, applicants with a final grade average lower than 65% in these required courses will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program.

Note:

Students cannot combine a Sociology Minor program with another Sociology program (Specialist or Major) for their degree. **Credit for higher-level SOC courses will not waive these requirements**

Completion Requirements:

(4.0 credits in Sociology)

1. [SOC100H1](#) and [SOC150H1](#).
2. 3.0 SOC credits, which includes at least 1.0 SOC credit at the 300-level, i.e., 2.0 SOC credits at the 200 OR 300-level and 1.0 SOC credit at the 300-level.

Sociology Courses

SOC100H1 - Introduction to Sociology I: Sociological Perspectives

Hours: 24L/12T

This course will challenge your views on a wide range of issues that affect us all. It will also excite your interest in a unique sociological way of understanding your world. We will analyze the globalization of culture, emerging patterns of class, race, and gender inequality in Canada and internationally, criminal and deviant behaviour, and so on. You will learn to understand these and other pressing social issues by analyzing the way the social world is organized. These topics are further taken up in the sequel

Combined Degree Program (CDP) offered with Victoria College and Ontario Institute for Studies in Education (OISE)

- Combined Degree Program in HBA/HBSc and Master of Teaching (MT)

Students enrolled in the Minor in Education and Society and Major in Sociology may apply for this Combined Degree Program. For details about application and program requirements, see the [Combined Degree Programs section](#).

Regarding Sociology Courses

Transfer credits of SOC1**H without exclusion cannot be used to meet program admission or requirements.

400-level Courses

Sociology majors cannot take more than 0.5 SOC credit at the 400-level and Sociology specialists cannot take more than 1.0 SOC credit at the 400-level, without written permission from the Undergraduate Program Administrator.

Program-only Courses

Sociology Majors cannot take more than 1.0 SOC credit of the program-only courses and Sociology Specialists cannot take more than 2.0 SOC credits of the program-only courses, without permission from the Undergraduate Program Administrator.

to this course, [SOC150H1](#): Introduction to Sociology II: Sociological Inquiries.

Exclusion: [SOC101Y1](#), [SOC102H1](#), [SOC103H1](#), [SOCA01H3](#), [SOCA02H3](#), [SOCA03Y3](#), [SOC100H5](#)
Breadth Requirements: Society and its Institutions (3)

SOC150H1 - Introduction to Sociology II: Sociological Inquiries

Hours: 24L/12T

In the sequel to [SOC100H1](#): Introduction to Sociology I: Sociological Perspectives, this course will explore in more depth the topic of social inequality and the contemporary debates that animate sociology. We may like to think of ourselves as perfectly free but powerful social forces open

up some opportunities and close off others, constraining our freedom and helping to make us what we are. By examining the operation of these social forces, sociology can help us know ourselves. The course is also about skills-building, skills useful not only for success at U of T, but beyond the walls of the university.

Prerequisite: SOC100H1

Exclusion: SOC101Y, (SOC102H + SOC103H), SOC200H1, SOC200Y1, SOCB05H3, SOC221H5, SOC200Y5

Breadth Requirements: Society and its Institutions (3)

SOC196H1 - Introduction to Arab Majority Societies

Hours: 24L

This course has two goals. It aims to familiarize students with current challenges and dynamics within Arab societies. It seeks to help students develop a critical perspective on prevalent analytical frameworks such as culturalist, orientalist analyses applied to the region. To achieve this, we will use a controversy, conflict, or current event as an entry point to illuminate one or more dimensions of the society we are studying. The countries studied will vary from session to session to reflect the socio-economic, cultural, religious, and political diversity of the region, as well as the common challenges facing these countries. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

SOC197H1 - The Courses of Lives, Histories, & Futures

Hours: 24L

This course will explore how changes in technology, economy, ecology, culture, and other factors shape how individual lives and social relations tend to unfold. Much of the research and theory that social scientists have produced on the "life course" has focused on how historical events and trends, such as war, economic depression, and trends in family-life have re-shaped life transitions and aging. Those latter changes in turn lead to broad social changes that influence subsequent generations in new ways. In this course we will not be solely concerned with changes in and from the past. We will also keep an eye on the future, and ask how technological changes related to bodies, such as genetic engineering and bioelectric implants, might alter the trajectory of lives and social relations of future generations. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

SOC198H1 - Explaining the Persistence of Racialized Inequalities

Hours: 24L

Why are Black and other racialized groups comparatively more disadvantaged than people racialized as White? Although race is a social category, it has profound effects on our life chances and opportunities. Explanations for and strategies to address racialized inequalities have long been debated. Emphasizing sociological perspectives, this course highlights and presents explanations for ongoing racialized inequalities across various social institutions, in opportunities for advancement, and in everyday social interactions. More specifically, this course will discuss racialized inequalities in the following areas: poverty and wealth, the labor market, the educational system, the criminal justice system, health, neighborhoods and housing, the political process and representation, and social interactions and relationships. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

SOC199H1 - Living Together Differently in the 21st Century: Israel as a case study

Hours: 24S

How can people with different worldviews and dissimilar moral visions live together? Liberal philosophers have grappled with this question offering solutions including tolerance, peace, and multiculturalism. However, many people today, particularly in the West, oppose liberalism as a cultural message and a political goal. Powerful evidence can be found in the rise of "populist" backlash movements and the sharp polarization between liberals and conservatives. Can Western democracies overcome this crisis? This seminar explores this question from a sociological perspective with Israel as a case study. We will probe the efforts of Israeli activists and professionals to instill non-liberal peace among Jews and Arabs, to bridge the chasm between liberals and conservatives, and to include LGBTs and people with disabilities as equal members of society while surpassing liberal principles. By analyzing their work, we will broaden our understanding about living together differently in the 21st century. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

SOC201H1 - Classical Sociological Theory

Hours: 24L/12T

Introduction to the history, nature, and role of sociological theory, through an examination of the works of key classical theorists such as Karl Marx, Max Weber, Emile Durkheim, Georg Simmel, and others. Restricted to sociology majors and specialists.

Prerequisite: SOC100H1+ SOC150H1

Exclusion: SOC203H1, SOC231H5, SOCB42H3

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC202H1 - Introduction to Quantitative Methods in Sociology

Hours: 24L/18T

Introduction in quantitative social science research from descriptive statistics to hypothesis testing using various strategies for the analysis of bivariate relationships. Restricted to sociology majors and specialists.

Prerequisite: SOC100H1, SOC150H1

Exclusion: SOC200Y5, SOC222H5, SOCB35H3, ECO220Y1, ECO227Y1, GGR270H1, IRW220H1, PSY201H1, PSY201H5, PSYB07H3, STA220H1, STA248H1, STA288H1, POL222H1, POL232H1, POL242Y1, POL322H1

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC204H1 - Introduction to Qualitative Methods in Sociology

Hours: 24L/12T

Introduction to the methods and issues of qualitative research, the theories, methods for data collection and analysis, and the personal and ethical issues relating to qualitative research. Restricted to sociology majors and specialists.

Prerequisite: SOC100H1+ SOC150H1

Exclusion: SOC302H1, SOCC23H3, SOC387H5, POL352H1

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC205H1 - Urban Sociology

Hours: 24L

This course reviews theories of urban genesis and urban form; the interrelationship of urbanization, industrialization and modernization, issues in urban living (housing, transportation, urban-renewal, poverty, unemployment, etc.); urban social networks (ethnic and cultural heterogeneity, neighbourhood, community and other voluntary associations).

Prerequisite: SOC100H1

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC207H1 - Sociology of Work & Occupations

Hours: 24L

The nature and meaning of work in relation to changes in the position of the professions, unions and government, of women and minority groups, and in industrial societies more generally. Career choice and strategies, occupational mobility, and individual satisfaction at work.

Prerequisite: SOC100H1

Exclusion: SOC227H5

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC208H1 - Introduction to Social Policy

Hours: 24L

This course introduces students to the concepts, history and development of social policy in economically developed welfare states. It examines the problems and concepts of the policy process, exploring the political, economic, and institutional frameworks that structure public choices about social policy in Canada, and compare systems of social policy around the world.

Prerequisite: SOC100H1

Exclusion: SOC297H1 (New Topics in Sociology: Introduction to Social Policy), offered in Winter 2017, SOC240H5

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC209H1 - Sexuality and Modernity

Hours: 24L

This course examines questions related to sexuality, with a special focus on the social construction of sexual identity, practice, community and desire. To do so, we proceed self consciously with a critical analysis of the modern study of sexuality, and the ways in which sexual science, as a kind of social practice, has affected the construction and regulation of sexual orientation.

Prerequisite: [SOC100H1](#)

Exclusion: [SOC395H1](#) (taken in Winter 2015, Winter 2016), [SOC387H1](#) (taken in Fall 2016, Fall 2017), [SOC386H1](#) (taken in Winter 2018)

Recommended Preparation: [SOC150H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC210H1 - Sociology of Race and Ethnicity

Hours: 24L

The course explores the concepts of race and ethnicity and major theories to understand race and ethnic relations.

Prerequisite: [SOC100H1](#)

Exclusion: [SOC210Y1](#)

Recommended Preparation: [SOC150H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC212H1 - Sociology of Crime & Deviance

Hours: 24L

This course provides an overview of the study of crime and deviance. We critically examine how scholars have gone about studying crime and deviance (the methods they use and the statistics they employ) as well as the major sociological explanations for crime and deviance. We also consider the empirical evidence as it relates to the validity of these explanations and some of the policy fallout from different theoretical approaches.

Prerequisite: [SOC100H1](#)

Exclusion: [SOC211H5](#)

Recommended Preparation: [SOC150H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC213H1 - Sociological Social Psychology

Hours: 24L

This course provides an introduction to the systematic study of the influence of individuals, groups, and society on individuals' thoughts, feelings, and behaviours from a sociological perspective. The course emphasizes interaction among individuals, between an individual and a group, or among groups, all situated within particular social contexts. One core emphasis involves the ways that individual-level processes contribute to explaining social inequality in social groups and organizations. Topics include identity processes, social cognitions, attitudes, emotions, status processes, power relations, legitimacy, and justice.

Prerequisite: [SOC100H1](#)

Exclusion: [PSY220H1](#)

Recommended Preparation: [SOC150H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC214H1 - Sociology of the Family

Hours: 24L

This course examines diverse family patterns, to show the economic, political and cultural factors that influence families. A brief social history of family paves the way for an examination of the various family patterns common in Canada today. Special attention is paid to the gender relations at the heart of family.

Prerequisite: [SOC100H1](#)

Exclusion: [SOCB49H3](#); [SOC244H5](#)

Recommended Preparation: [SOC150H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC215H1 - Sociology of Organizations

Hours: 24L

Organizations are ubiquitous in modern society. Many of us spend the first days of our life in hospitals and our last days in nursing homes. During our lifecourse, we go to school, we work, we dream of becoming a part of some organizations (perhaps an elite university or firm), while we try to avoid becoming a part of other organizations (e.g., jail). Despite their ubiquity and importance in our lives, we seem not to notice organizations or think about how they may be shaping our lives for better or worse. This course will help students begin to see organizations sociologically. We will examine organizations from several theoretical perspectives and learn about empirical developments in organizational sociology.

Prerequisite: SOC100H1

Exclusion: SOC496H1 (offered as "Sociology of Organizations") taken in Fall 2016, SOC489H1 (offered as "Sociology of Organizations") taken in Fall 2017, SOC489H1 (offered as "Sociology of Organizations") taken in Fall 2019, SOC298H1 (offered as "Sociology of Organizations") taken in Winter 2023.

Breadth Requirements: Society and its Institutions (3)

Course Experience: University-Based Experience

SOC218H1 - Asian Communities in Canada

Hours: 24L

The course will explore the structures and processes of Asian communities in Canada. Historical development of various Asian communities will be explored.

Prerequisite: SOC100H1

Exclusion: SOC342Y1/ SOC394Y1

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC220H1 - Social Stratification

Hours: 24L

This course is concerned with the causes and consequences of economic inequality. More specifically, it explores how achieved and ascribed characteristics are related to social class and related economic outcomes. Although some of the material will be comparative and pertain to modern Democracies generally, emphasis will be on Canadian society.

Prerequisite: SOC100H1

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC225H1 - Canadian Society

Hours: 24L

This course uses a sociological approach to understand current Canadian society, Canada's role in global politics, and how Canadian social policies compare to the policies of other countries around the world. The topics considered in the course include economics, politics, happiness, health and mental health care, crime and punishment, tolerance for diversity, education, and more. The most current Canadian research and global comparative research are explored to ensure students leave with a thorough scientific awareness of where Canada is, where

it is going, and what they think the best policies for Canada are moving forward.

Prerequisite: SOC100H1

Exclusion: SOC297H1 (offered as "Canadian Society") taken in Fall 2022

Breadth Requirements: Society and its Institutions (3)

Course Experience: University-Based Experience

SOC230H1 - Sociology of Education

Hours: 24L

In advanced economies, schooling is a near-universal and highly structured institution. During the most impressionable times in their lives, children and adolescents go nearly every day to sit in the same pattern of classes with the same peers. In theory, students both within and across schools are supposed to learn the same things, at approximately the same time, and engage in similar rituals. And yet, this level of standardization often leads to substantively different outcomes across groups. This course investigates the structure of schools and the achievement hierarchies within and across them.

Prerequisite: SOC100H1

Breadth Requirements: Society and its Institutions (3)

SOC240H1 - Sociology of Law

Previous Course Number: SOC293H1

Hours: 24L

This course asks students to think critically about the role of law in society, and to develop a sociological understanding of law and legal institutions. The course will include theoretical approaches to understanding the role of law and legal authority, and the constitutive ways in which law affects, shapes, and is negotiated in everyday life. In addition, attention will be paid to the legal profession, including empirical research on lawyers, legal careers, and their relationship to fields of practice, with an emphasis on the relationship between the structure of the legal profession and law as a democratic institution.

Prerequisite: SOC100H1

Exclusion: SOC293H1 (Topics: Sociology of Law), offered in Summer 2018, Winter 2019, Summer 2019, SOC396H1 (Topics: Sociology of Law), offered in Winter 2013

Breadth Requirements: Society and its Institutions (3)

SOC243H1 - Sociology of Health and Illness

Hours: 24L

This course examines (1) the social causes of illness and disease, (2) the experience of illness, and social processes that shape both of these issues, including medicalization. It focuses on population health, the relation between agency and structure, and macro-micro connections. Professional health care is discussed to the extent that it provides context for analyses of illness patterns and experiences.

Prerequisite: SOC100H1

Exclusion: SOC239H5

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC246H1 - Sociology of Aging

Hours: 24L

This course deals with population aging, cohort effects, inter-generational relations, historical variation in effects of social environment on aging, how health and family relationships vary with age, and social policies related to aging. The whole life course is considered, but the emphasis on adulthood and old age.

Prerequisite: SOC100H1

Exclusion: SOC334H5

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC249H1 - Sociology of Migration

Hours: 24L

This course examines contemporary migration flows, types and causes of migration, theories of migration, immigration policies, and migrant integration with emphasis on Canada.

Prerequisite: SOC100H1

Exclusion: SOC307Y1

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC250Y1 - Sociology of Religion

Hours: 48L

This course will examine religious beliefs, practices, and experiences from a historical-sociological and comparative perspective. Classical and contemporary theories will be reviewed and applied to investigate such topics as: the social origins of religions; the formation of religious communities; heresies, schisms and the making of orthodoxies; secularization and fundamentalism; cults and new religious movements; religious regulation of the body and person; and the variable linkages of religion to politics, war, art and science.

Prerequisite: SOC100H1

Exclusion: RLG210Y1

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC251H1 - Contemporary Sociological Theory

Hours: 24L/12T

A selective introduction to major contemporary thinkers and approaches whose ideas have achieved wide influence, as well as an on-going inquiry into the nature and role of sociological analysis. Restricted to sociology majors and specialists.

Prerequisite: SOC201H1 or SOC203H1

Exclusion: SOC376H1; SOC232H5

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC252H1 - Intermediate Quantitative Methods in Sociology

Hours: 24L/24T

Provides students with the opportunity to develop an understanding of the logic of multivariate analysis by applying various strategies for the analysis of complex multivariate data. Restricted to sociology majors and specialists.

Prerequisite: SOC202H1

Exclusion: SOC300H1, ECO220Y1, PSY202H1, STA221H1

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC254H1 - Intermediate Qualitative Methods in Sociology

Hours: 24L/12T

An in-depth examination of key methods of qualitative research, and an opportunity to design and conduct qualitative research that draws from key debates, methodologies, and methods in the field. Restricted to sociology majors and specialists.

Prerequisite: SOC204H1

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC256H1 - Lives and Societies

Hours: 24L

Characteristics of very different kinds of societies, from hunters and gatherers to modern postindustrial countries, and how these affect features of individual lives including: life stages, their status, and transitions between them; the variety of possible life courses; rates of birth and death, and their implications for people, their kin, and their societies.

Prerequisite: SOC100H1

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC260H1 - Introduction to Political Sociology

Hours: 24L

An introduction to key topics in political sociology such as social movements, electoral alignments, parties as organizations, the welfare state, revolution, policymaking, state formation, nationalism and imperialism.

Prerequisite: SOC100H1

Exclusion: SOCB30H3, SOC335H5

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC265H1 - Gender and Society

Hours: 24L

This course first explores how sociologists conceptualize gender and study gender. Then, it explores the varied nature of gender relations, with a focus on the social organization of gender today.

Prerequisite: SOC100H1

Exclusion: SOCB22H3, SOC275H5

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC270H1 - Introduction to Social Networks

Previous Course Number: SOC355H1

Hours: 24L

This course covers the fundamentals of the social network perspective, including a short introduction to social network theory and a survey of major findings in social network research. We will study how patterns of relations between social actors develop and how they affect outcomes such as health, status attainment, and inequality. Students will write a proposal to conduct research from a social network perspective.

Prerequisite: SOC100H1

Exclusion: SOC355H1, SOC294H1 (Topics: Introduction to Social Networks) offered in Winter 2018 and Winter 2020

Breadth Requirements: Society and its Institutions (3)

SOC280H1 - Sociology of Culture

Hours: 24L

The course examines the social origins of culture, the cultural patterns found in various groups and institutions, and the influence culture has on important aspects of society.

Prerequisite: SOC100H1

Exclusion: SOC281H1; SOC202H5

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC282H1 - Introduction to Social Problems

Hours: 24L

Examines a variety of widely discussed social problems, including poverty, crime, substance abuse, sexism, climate change and urban sprawl, using sociological theories to understand the causes of these problems. Will also examine the "social construction" of these social problems and factors that influence public attention and concern.

Prerequisite: SOC100H1

Recommended Preparation: SOC150H1

Breadth Requirements: Society and its Institutions (3)

SOC293H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: [SOC100H1](#)

Recommended Preparation: [SOC150H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC294H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: [SOC100H1](#)

Recommended Preparation: [SOC150H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC295H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: [SOC100H1](#)

Recommended Preparation: [SOC150H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC296H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: [SOC100H1](#)

Recommended Preparation: [SOC150H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC297H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: [SOC100H1](#)

Recommended Preparation: [SOC150H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC298H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: [SOC100H1](#)

Recommended Preparation: [SOC150H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

SOC303H1 - Family Demography

Hours: 24L

Uses empirical sociological studies to describe and analyze the political, social and economic implications of diverse family relationships and living arrangements. Examines the social and economic consequences of inconsistencies between public definitions of family and the realities of family life. Introduces students to the statistical analysis of the demographic features of families using census data.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: [SOC320H1](#)

Recommended Preparation: [SOC214H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC304H1 - Status and Class Mobility

Hours: 24L

Shows how getting ahead or becoming downwardly mobile are affected by social as well as economic factors. Links the experience of mobility to larger scale social change.

Prerequisite: 1.0 SOC credit at the 200+ level
Exclusion: SOC321H1
Breadth Requirements: Society and its Institutions (3)

SOC305H1 - Sociology of Professions

Hours: 24L

Becoming a professional (doctor, accountant, lawyer, engineer, nurse, etc.) remains a coveted goal for many young adults and their parents. But what is a profession, and what do these disparate groups have in common? This course lays the groundwork for understanding how the “professional projects” define professions, limit entry, create internal inequalities and try to maintain their prestige. The role of policy is key to our understanding of the professions, and we will focus on the role of policies in the creation of professions, in the substance of professional work such as ethics, autonomy and commercialism, and on the role of policies in addressing social concerns of inequality and diversity in the professions.

Prerequisite: 1.0 SOC credit at the 200+ level
Exclusion: SOC322H1
Breadth Requirements: Society and its Institutions (3)

SOC306H1 - Economic Sociology

Hours: 24L

This course offers a sociological account of economic phenomena. It examines the sociological perspectives on production, consumption, exchange and distribution, economic crises, and other economic matters. In addition to exploring economic behavior in the corporate and financial worlds, the course also examines behavior in households, markets for intimacy, and illegal markets.

Prerequisite: 1.0 SOC credit at the 200+ level
Exclusion: SOC386H1F (2016/2017), SOC323H1
Breadth Requirements: Society and its Institutions (3)

SOC308H1 - Global Inequality

Hours: 24L

This course examines the social processes that characterize stratification and social inequality across the globe, by looking at whether global inequality is growing, shrinking or stagnant and the impact of globalization on global inequality, with particular emphasis on examining disparities over time in education, income/wealth and health.

Prerequisite: 1.0 SOC credit at the 200+ level or SOC220H1
Exclusion: SOC395H1S (2016/2017), SOC345H1
Breadth Requirements: Society and its Institutions (3)

SOC309H1 - HIV and AIDS: Social Policies and Programs

Hours: 24L

Explores and discusses specific theories of action. Applies theories to various factors associated with AIDS/HIV. Examines political, scientific, health, social, economic, and cultural environments. This course forces students to examine the hidden theoretical assumptions surrounding AIDS/HIV.

Prerequisite: 1.0 SOC credit at the 200+ level
Exclusion: SOC309Y1, SOC324H1
Breadth Requirements: Society and its Institutions (3)

SOC310H1 - Sociology of Atrocities

Previous Course Number: SOC397H1

Hours: 24L

This course focuses on the sociology of atrocities. We focus on the range of social actors and processes involved when atrocities occur, how we identify, name, and respond to atrocities (such as genocide or crimes against humanity), the behavior of bystanders and intervenors, cultural trauma and the effects of atrocities, and processes of commemoration. We investigate the collective and social dynamics to try and explain the role of individuals, groups, and institutional actors in committing atrocities, including the role of group identities, bureaucracies, collective decision-making, shared repertoires, legacies of hate, and peer networks. We study the role of other actors – in particular legal institutions, but also humanitarian bodies, journalists, and others – in identifying, naming and sometimes responding to these atrocities, along with sociological evidence about how they do so and the efficacy of any such response.

Prerequisite: 1.0 SOC credit at the 200+ level
Exclusion: SOC330H1, SOC397H1 (Selected Topics in Sociological Research: International Criminal Justice & Atrocities), offered in Fall 2013, Winter 2015 and Winter 2016
Breadth Requirements: Society and its Institutions (3)

SOC311H1 - Immigration and Race Relations in Canada

Hours: 24L

Examines the economic, social, cultural and political impacts of 20th century immigration in Canada, and emerging race and ethnic relations. Topics include immigration policy; population impact; community formation; labour markets; enclave economies; welfare use by immigrants; the criminal justice system; racial conflict; multiculturalism and race; and equity policies.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC336H1, SOC347H1

Breadth Requirements: Society and its Institutions (3)

SOC312H1 - Population and Society

Hours: 24L

This introductory course examines Canada's population in a global context, covering a broad range of population issues and perspectives. Topics include (a) demographic data and methods, (b) population composition in terms of age, sex, and nuptiality, (c) demographic processes of fertility, mortality, internal and international migration, (d) the relationship between population change and urbanization, and (e) the role of social policy on population change. For all course topics, the instructor will examine historical and cross-national trends and review proposed explanations.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC312Y1, SOC325H1, SOC356H5

Breadth Requirements: Society and its Institutions (3)

SOC313H1 - Social Control

Hours: 24L

This course examines how society has gone about controlling specific types of deviants (e.g., gang members, sex and drug offenders) and acts of deviance (e.g., organized crime, the deviance of social control agents). In examining these individuals and acts, attention is also directed to why they are defined as deviant and sanctioned, and why some types of deviance are less likely to be detected and sanctioned than others. Finally, consideration is also given to a range of sanctions that have been used to control deviance and the empirical evidence on their effectiveness.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC326H1

Recommended Preparation: SOC212H1

Breadth Requirements: Society and its Institutions (3)

SOC315H1 - Domestic Violence

Hours: 24L

This course will provide an overview of the different forms of domestic criminal violence, concentrating primarily on intimate partner violence and child abuse. We will focus on the methodological problems in assessing the nature and extent of these types of violence, the risk factors and correlates of both offending and victimization and the theoretical explanations that have been offered for these crimes. We also consider the social and legal responses to intimate partner violence and child abuse.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC328H1

Recommended Preparation: SOC212H1

Breadth Requirements: Society and its Institutions (3)

SOC316H1 - Sociology of Health Care

Hours: 24L

Examines factors that influence the organizational structure of health care systems, how these organizations develop, how they are maintained, and how they can be change.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC244H1, SOC333H5, SOC346H1

Breadth Requirements: Society and its Institutions (3)

SOC317H1 - Urban Policy

Hours: 24L/12T

Urban policies reflect how cities and urban areas are designed, built, and managed. They actively shape the ways in which people live. From transportation to housing, crime prevention to climate change, urban policies cover a number of areas of great concern. While cities are heralded as sites of innovation and economic activity, they are also sites of deep inequality. Cities across the world have produced different responses to address these issues. However, urban policy is not only shaped by policymakers; rather, many different institutions shape public policymaking. Given the range of issues facing urban areas, it is important to understand the policies are designed and implemented, and the multiple actors engaged.

Prerequisite: SOC201H1, SOC202H1, SOC204H1, and 1.0 credit from SOC251H1, SOC252H1, SOC254H1

Exclusion: SOC353H1 (offered as "Urban Policy") taken in Winter 2022 or 2023

Breadth Requirements: Society and its Institutions (3)

Course Experience: University-Based Experience

SOC318H1 - Theories of Stratification

Hours: 24L/12T

Why do some people have more resources than others? Who winds up at the top of economic hierarchies, and who winds up at the bottom? These are the primary questions for the study of stratification. In this course, we focus primarily on the most influential contemporary sociological theories of status attainment and gender inequality, with additional but briefer treatments of the central theories on other topics (e.g., poverty and the welfare state, networks, rents, racial inequality). This is a program-only course and is restricted to Sociology Majors and Specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1

Exclusion: SOC361H1

Breadth Requirements: Society and its Institutions (3)

SOC319H1 - Immigration and Employment

Previous Course Number: SOC439H1

Hours: 24L/12T

This course examines the labour market and employment situation of immigrants emphasizing recent Canadian experience in comparative context. Topics include immigrant human capital, declining immigrant earnings, immigrant skill-underutilization, impact of the knowledge economy, racial discrimination, labour market structure and unionization, immigrant entrepreneurship and experiences of the Canadian-born second generation. This is a program-only course and is restricted to Sociology Majors and Specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1

Exclusion: SOC370H1

Breadth Requirements: Society and its Institutions (3)

SOC321H1 - Status and Class Mobility

Hours: 24L/12T

Shows how getting ahead or becoming downwardly mobile are affected by social as well as economic factors. Links the experience of mobility to larger scale social change. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1

Exclusion: SOC304H1

Breadth Requirements: Society and its Institutions (3)

SOC322H1 - Sociology of Professions

Hours: 24L/12T

Becoming a professional (doctor, accountant, lawyer, engineer, nurse, etc.) remains a coveted goal for many young adults and their parents. But what is a profession, and what do these disparate groups have in common? This course lays the groundwork for understanding how the "professional projects" define professions, limit entry, create internal inequalities and try to maintain their prestige. The role of policy is key to our understanding of the professions, and we will focus on the role of policies in the creation of professions, in the substance of professional work such as ethics, autonomy and commercialism, and on the role of policies in addressing social concerns of inequality and diversity in the professions. This is a program-only course and is restricted to Sociology Majors and Specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1

Exclusion: SOC305H1

Breadth Requirements: Society and its Institutions (3)

SOC323H1 - Economic Sociology

Hours: 24L/12T

This course offers a sociological account of economic phenomena. It examines the sociological perspectives on production, consumption, exchange and distribution, economic crises, and other economic matters. In addition to exploring economic behavior in the corporate and financial worlds, the course also examines behavior in households, markets for intimacy, and illegal markets. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1

Exclusion: SOC306H1

Breadth Requirements: Society and its Institutions (3)

SOC325H1 - Population and Society

Hours: 24L/12T

This introductory course examines Canada's population in a global context, covering a broad range of population issues and perspectives. Topics include (a) demographic data and methods, (b) population composition in terms of age, sex, and nuptiality, (c) demographic processes of

fertility, mortality, internal and international migration, (d) the relationship between population change and urbanization, and (e) the role of social policy on population change. For all course topics, the instructor will examine historical and cross-national trends and review proposed explanations. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC312H1](#), [SOC356H5](#)

Breadth Requirements: Society and its Institutions (3)

SOC326H1 - Social Control

Hours: 24L/12T

This course examines how society has gone about controlling specific types of deviants (e.g., gang members, sex and drug offenders) and acts of deviance (e.g., organized crime, the deviance of social control agents). In examining these individuals and acts, attention is also directed to why they are defined as deviant and sanctioned, and why some types of deviance are less likely to be detected and sanctioned than others. Finally, consideration is also given to a range of sanctions that have been used to control deviance and the empirical evidence on their effectiveness. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC313H1](#)

Recommended Preparation: [SOC212H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC327H1 - Sociology of Sports

Hours: 24L/12T

The sociology of sport seeks to critically examine common sense views about the role, function and meaning that sport has in different societies. By challenging 'nature' and taken-for-granted views about sport, sociologists seek to provide both a more social and scientific account of sports. This course will do so by exploring several topics including but not limited to learning about different perspectives on sports, sports and socialization, sports and media, the business of sports, the intersection between sports and inequality, sports and race, sports and gender and sexuality, sports and deviance, as well as sports and politics.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC354H1](#) (offered as "Sociology of Sports")

taken in Summer 2022, [SOC351H1](#) (offered as "Sociology of Sports") taken in Fall 2022

Breadth Requirements: Society and its Institutions (3)

Course Experience: University-Based Experience

SOC328H1 - Domestic Violence

Hours: 24L/12T

This course will provide an overview of the different forms of domestic criminal violence, concentrating primarily on intimate partner violence and child abuse. We will focus on the methodological problems in assessing the nature and extent of these types of violence, the risk factors and correlates of both offending and victimization and the theoretical explanations that have been offered for these crimes. We also consider the social and legal responses to intimate partner violence and child abuse. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC315H1](#)

Recommended Preparation: [SOC212H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC329H1 - Social Movements

Hours: 24L/12T

This course introduces students to the sociological study of collective action. Students will explore how movements in a variety of historical and global contexts endeavor to produce social change. In this process, we will examine political and cultural opportunities and obstacles, organizational dynamics, resources, collective action frames, strategies and tactics. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC279H1](#), [SOC360H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC330H1 - Sociology of Atrocities

Previous Course Number: SOC397H1

Hours: 24L/12T

This course focuses on the sociology of atrocities. We focus on the range of social actors and processes involved when atrocities occur, how we identify, name, and respond to atrocities (such as genocide or crimes against humanity), the behavior of bystanders and

intervenors, cultural trauma and the effects of atrocities, and processes of commemoration. We investigate the collective and social dynamics to try and explain the role of individuals, groups, and institutional actors in committing atrocities, including the role of group identities, bureaucracies, collective decision-making, shared repertoires, legacies of hate, and peer networks. We study the role of other actors – in particular legal institutions, but also humanitarian bodies, journalists, and others – in identifying, naming and sometimes responding to these atrocities, along with sociological evidence about how they do so and the efficacy of any such response. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC310H1](#), [SOC397H1](#) (Selected Topics in Sociological Research: International Criminal Justice & Atrocities), offered in Fall 2013, Winter 2015 and Winter 2016

Breadth Requirements: Society and its Institutions (3)

SOC331H1 - Sociology of Technology

Hours: 24L/12T

This course invites students to critically examine the interplay between technology and society. We will discuss how our interactions with technologies, including computers and the Internet, ICTs, social media, and other digital technologies, have become central for our understanding of contemporary social life. This course provides an overview of the sociology of technology, encompassed by various topics in which technology intersects with other areas of sociological inquiry, such as social stratification, community and networks, criminology and social control, work and labour, health and aging, and many others. This is a program-only course and is restricted to Sociology Majors and Specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC356H1](#), [SOC356Y1](#)

Breadth Requirements: Society and its Institutions (3)

SOC332H1 - Lives in Canada

Hours: 24L/12T

The life course in Canada, in the twentieth century and today, with some comparisons to other first world countries. How lives have changed over the past century; how lives are affected by history and social location; the impact of the life trajectories on health and crime. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC357H1](#), [SOC257H1](#)

Recommended Preparation: [SOC220H1](#) or [SOC281H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC333H1 - Quality of Institutions and Lives

Hours: 24L/12T

Theory and research on quality of life encompass studies of subjective dimensions of individual wellbeing, such as happiness, and studies that focus on objective indicators of the quality of institutions and settings, such as child mortality rates. Quality-of-life theories range from (sometimes utopian) classical sociological theories with a historical and political slant to recent interdisciplinary theories that integrate sociological, psychological, and philosophical approaches. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC362H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC334H1 - Sociology of Mental Health and Mental Disorders

Hours: 24L/12T

An overview of the link between social inequality and emotional inequality, focusing on differences in mental health across social groups and the role of stress and coping resources in explaining group differences. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC363H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC335H1 - Urban Health

Hours: 24L/12T

Cities are home to particular populations (the poor, the homeless, racial and ethnic minorities, immigrants, and the young and old) and have distinct risks and protections relevant to health. Patterns of health in cities, historical developments, and emerging literature and methodology are used to uncover how everyday settings influence

health. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC364H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC336H1 - Transnational Asia

Hours: 24L/12T

This course explores how transnational flows of capital, labor, ideas, and culture are reconstituting the ways in which we organize our political, economic, and cultural life by particularly focusing on Asia, the region that has been at the center of this global transformation. How has the notion of the "transnational" evolved and invited critical re-evaluations? What has been the place of Asian countries in this global process and what political, economic, social, and cultural changes do they experience? By examining these questions, this course aims to enhance our understanding of contemporary Asian societies closely tied with each other and the rest of the world. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC372H1](#), [SOC351H1](#) (New Topics in Sociology: Transnational Asia), offered in Winter 2019; [SOC395H1](#) (New Topics in Sociology: Transnational Asia), offered in Fall 2019

Breadth Requirements: Society and its Institutions (3)

SOC337H1 - Gender Relations

Hours: 24L/12T

This course examines the dynamics of gender in daily life – in sexuality and intimate relations, in parenting and families, and in paid work and workplace organizations, as well as in popular culture. It examines the social construction of gender in individuals and in social organizations, in order to understand gender inequality. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC365H1](#)

Recommended Preparation: [SOC265H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC339H1 - Race, Class, and Gender

Hours: 24L/12T

In this class, we analyze the ways in which race, class, gender and sexuality interact and shape communities, life opportunities, perspectives and politics. We will read contemporary ethnographies concerning work, socialization, and urban life against current sociological theories about inequality and intersectionality, and identity. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC367H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC340H1 - Comparative Political Sociology

Hours: 24L/12T

The study of comparative (historical and cross-national) variation in outcomes that are the subject of research by political sociologists. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: [SOC201H1](#), [SOC202H1](#), [SOC204H1](#) and 1.0 credit from [SOC251H1](#), [SOC252H1](#), [SOC254H1](#)

Exclusion: [SOC371H1](#)

Recommended Preparation: [SOC260H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC341H1 - Sociology of Scandals

Hours: 24L/12T

Scandals – corporate, political, or bureaucratic – pervade media reporting and public debate. This course takes up scandals as sociological events: what are the causes of scandals? How are scandals 'made'? How are scandals represented? And what are the consequences of scandals: do they discredit some actors, and lead to cultural, institutional, and organizational change? Do they lead to reform, used for new professional mobilization, new forms of regulation and oversight, targeted for legal intervention, or do they generate new political shifts, or new memories or narratives? Or are they ignored? The course will also pay attention to how scandals are made public: leaks, investigations, whistleblowers, and media reporting, and the framing of events as scandals worthy of public condemnation. Finally, with scandals often thought of as singular, this course allows students to consider what is in common between these events. This is a program-only course and is restricted to Sociology Majors and Specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1

Exclusion: SOC389H1

Breadth Requirements: Society and its Institutions (3)

SOC344H1 - Sociology of Everyday Life

Hours: 24L/12T

This course explores the phenomenological and organizational foundation of everyday experience. It focuses on the structure and social interactions that shape everyday life, and explains the social order that makes everyday life seem smooth and relatively effortless. The course offers experience in qualitative research and writing. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1

Exclusion: SOC388H1

Breadth Requirements: Society and its Institutions (3)

SOC345H1 - Global Inequality

Hours: 24L/12T

This course examines the social processes that characterize stratification and social inequality across the globe, by looking at whether global inequality is growing, shrinking or stagnant and the impact of globalization on global inequality, with particular emphasis on examining disparities over time in education, income/wealth and health. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1

Exclusion: SOC308H1

Breadth Requirements: Society and its Institutions (3)

SOC346H1 - Sociology of Health Care

Hours: 24L/12T

Examines factors that influence the organizational structure of health care systems, how these organizations develop, how they are maintained, and how they can be changed. Topics also include the social forces that influence the relationship between healthcare providers and consumers. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1

Exclusion: SOC316H1; SOC244H1; SOC333H5

Breadth Requirements: Society and its Institutions (3)

SOC347H1 - Immigration and Race Relations in Canada

Hours: 24L/12T

Examines the economic, social, cultural and political impacts of 20th century immigration in Canada, and emerging race and ethnic relations. Topics include immigration policy; population impact; community formation; labour markets; enclave economies; welfare use by immigrants; the criminal justice system; racial conflict; multiculturalism and race; and equity policies. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1

Exclusion: SOC311H1; SOC336H1

Breadth Requirements: Society and its Institutions (3)

SOC348H1 - Culture and Inequality

Hours: 24L/12T

How location in socioeconomic, ethnic, gender, and generational groups shapes individual cultural repertoires; how culture affects individual positions in stratification hierarchies; and the role of culture in group boundaries and struggles. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1

Exclusion: SOC281H1; SOC381H1

Breadth Requirements: Society and its Institutions (3)

SOC350H1 - New Topics in Sociology

Hours: 24L/12T

An opportunity for students to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-sociology/>. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1

Breadth Requirements: Society and its Institutions (3)

SOC351H1 - New Topics in Sociology

Hours: 24L/12T

An opportunity for students to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-sociology/>. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1
Breadth Requirements: Society and its Institutions (3)

SOC352H1 - New Topics in Sociology

Hours: 24L/12T

An opportunity for students to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-sociology/>. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1
Breadth Requirements: Society and its Institutions (3)

SOC353H1 - New Topics in Sociology

Hours: 24L/12T

An opportunity for students to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-sociology/>. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1
Breadth Requirements: Society and its Institutions (3)

SOC354H1 - New Topics in Sociology

Hours: 24L/12T

An opportunity for students to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-sociology/>. This is a program-only course and is restricted to sociology majors and specialists.

Prerequisite: SOC201H1, SOC202H1, SOC204H1 and 1.0 credit from SOC251H1, SOC252H1, SOC254H1
Breadth Requirements: Society and its Institutions (3)

SOC356H1 - Sociology of Technology

Hours: 24L

This course invites students to critically examine the interplay between technology and society. We will discuss how our interactions with technologies, including computers and the Internet, ICTs, social media, and other digital technologies, have become central for our understanding of contemporary social life. This course provides an overview of the sociology of technology, encompassed by various topics in which technology intersects with other areas of sociological inquiry, such as social stratification, community and networks, criminology and social control, work and labour, health and aging, and many others.

Prerequisite: 1.0 SOC credit at the 200+ level
Exclusion: SOC331H1, SOC356Y1
Breadth Requirements: Society and its Institutions (3)

SOC357H1 - Lives in Canada

Hours: 24L

The life course in Canada, in the twentieth century and today, with some comparisons to other first world countries. How lives have changed over the past century; how lives are affected by history and social location; the impact of the life trajectories on health and crime.

Prerequisite: 1.0 SOC credit at the 200+ level
Exclusion: SOC257H1, SOC332H1
Recommended Preparation: SOC220H1 or SOC281H1
Breadth Requirements: Society and its Institutions (3)

SOC360H1 - Social Movements

Hours: 24L

This course examines the sociological study of collective action. Students will explore how movements in a variety of historical and global contexts endeavor to produce social change. In this process, we will examine political and cultural opportunities and obstacles, organizational dynamics, resources, collective action frames, strategies and tactics.

Prerequisite: 1.0 SOC credit at the 200+ level
Exclusion: SOC279H1, SOC329H1
Breadth Requirements: Society and its Institutions (3)

SOC361H1 - Theories of Stratification

Hours: 24L

Why do some people have more resources than others? Who winds up at the top of economic hierarchies, and who winds up at the bottom? These are the primary questions for the study of stratification. In this course, we focus primarily on the most influential contemporary sociological theories of status attainment and gender inequality, with additional but briefer treatments of the central theories on other topics (e.g., poverty and the welfare state, networks, rents, racial inequality).

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: [SOC318H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC362H1 - Quality of Institutions and Lives

Hours: 24L

Theory and research on quality of life encompass studies of subjective dimensions of individual wellbeing, such as happiness, and studies that focus on objective indicators of the quality of institutions and settings, such as child mortality rates. Quality-of-life theories range from (sometimes utopian) classical sociological theories with a historical and political slant to recent interdisciplinary theories that integrate sociological, psychological, and philosophical approaches.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: [SOC333H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC363H1 - Sociology of Mental Health and Mental Disorders

Hours: 24L

An overview of the link between social inequality and emotional inequality, focusing on differences in mental health across social groups and the role of stress and coping resources in explaining group differences.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: [SOC334H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC364H1 - Urban Health

Hours: 24L

Cities are home to particular populations (the poor, the homeless, racial and ethnic minorities, immigrants, and the young and old) and have distinct risks and protections relevant to health. Patterns of health in cities, historical developments, and emerging literature and methodology are used to uncover how everyday settings influence health.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: [SOC335H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC365H1 - Gender Relations

Hours: 24L

This course examines the dynamics of gender in daily life – in sexuality and intimate relations, in parenting and families, and in paid work and workplace organizations, as well as in popular culture. It examines the social construction of gender in individuals and in social organizations, in order to understand gender inequality.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: [SOC337H1](#)

Recommended Preparation: [SOC265H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC367H1 - Race, Class, and Gender

Hours: 24L

In this class, we analyze the ways in which race, class, gender and sexuality interact and shape communities, life opportunities, perspectives and politics. We will read contemporary ethnographies concerning work, socialization, and urban life against current sociological theories about inequality and intersectionality, and identity.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: [SOC339H1](#)

Breadth Requirements: Society and its Institutions (3)

SOC370H1 - Immigration and Employment

Previous Course Number: SOC439H1

Hours: 24L

This course examines the labour market and employment situation of immigrants emphasizing recent Canadian experience in comparative context. Topics include immigrant human capital, declining immigrant earnings, immigrant skill-underutilization, impact of the knowledge economy, racial discrimination, labour market structure and unionization, immigrant entrepreneurship and experiences of the Canadian-born second generation.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC319H1

Recommended Preparation: SOC317Y1 or SOC336H1 or SOC366H1 or SOC383H1

Breadth Requirements: Society and its Institutions (3)

SOC371H1 - Comparative Political Sociology

Hours: 24L

The study of comparative (historical and cross-national) variation in outcomes that are the subject of research by political sociologists.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC340H1

Recommended Preparation: SOC260H1

Breadth Requirements: Society and its Institutions (3)

SOC372H1 - Transnational Asia

Previous Course Number: SOC395H1

Hours: 24L

This course approaches Asia from a transnational perspective to enhance our understanding of the complexities involved in Asia's contemporary transformations. By departing from traditional nation-state-oriented analyses, this class explores how Asia shapes and is shaped by trans-Pacific politics, war and colonial legacies, global capitalism, labor migration, international norms of citizenship, urban development, and flows of ideas and popular culture. By closely examining Asia's transnational interconnectedness, we question the prevalent notion of Asia and regional studies and highlight the contradictions and challenges Asia faces in its political, economic, social, and cultural spheres. This critical approach is expected to offer a deeper investigation of Asia in and of itself while critiquing dominant assumptions and frameworks found in existing approaches to Asia.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC336H1, SOC351H1 (New Topics in Sociology: Transnational Asia), offered in Winter 2019, SOC395H1 (New Topics in Sociology: Transnational

Asia), offered in Fall 2019

Breadth Requirements: Society and its Institutions (3)

SOC373H1 - Deconstructing 'Muslim American' - Race, Nationalism, and Religion

Previous Course Number: SOC352H1

Hours: 24L/12T

Since the 2016 U.S. presidential election, Muslim Americans have once again been cast as both threatening "outsiders" as well as examples of what makes the United States a "nation of immigrants." What do these contestations teach us about how race, nationalism, and globalization shape immigrant identities? Taking Muslim Americans as a case study, this course will examine a range of topics, from everyday boundary-making to ongoing global politics pertaining to different Muslim groups in the United States, often drawing comparison with Muslims in other Western countries. More broadly, the course aims to unpack how various global and local/national forces shape the contours, dimensions, and meanings attached to an identity category. To that end, the course begins with some prominent sociological theories, such as intersectionality, double-consciousness, and Orientalism. We will apply these theoretical lenses to analyze issues of race, globalization, cultural citizenship, media representation, and political integration in Muslim American and immigrant experiences.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC349H1, SOC394H1 (New Topics in Sociology: Deconstructing "Muslim American" - Race, Nationalism and Religion), offered in Winter 2019, SOC352H1 (New Topics in Sociology: Deconstructing "Muslim American" - Race, Nationalism and Religion), offered in Winter 2020

Breadth Requirements: Society and its Institutions (3)

SOC375H1 - Sociology of the City

Hours: 24L

Cities have played a vital role in the global economy, but within the past decade, their importance has increased. From issues of housing affordability to homelessness, from debt crises to energy usage, from insufficient water to the outbreak of diseases, name a problem that concerns any aspect of social life, and the city is the crucible of where you will find it. On the other hand, cities represent our best hope for finding solutions to these enormous problems since they also serve as incubators of innovation, ideas and wealth creation. It is for these reasons that understanding cities become an important frame for understanding the joys and perils of social life. For over a century, sociologists have focused on

understanding different issues related to cities and their urbanization processes. However, in investigating the city, there have been several debates about their futures.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC395H1 (offered as "Sociology of the City") taken in Winter 2022 or 2023

Breadth Requirements: Society and its Institutions (3)

Course Experience: University-Based Experience

SOC380H1 - Sociology of Hip Hop

Hours: 24L

This course will use the rivalry between rappers Notorious B.I.G. (aka Biggie Smalls) and Tupac Shakur as a jumping off point to introduce you to the disparate and shared histories of East and West coast Hip Hop music (and culture); the importance of representing one's city and 'hood in Hip Hop; Hip Hop as a mode of 'resistance'; New York and LA as distinctive spaces of Black cultural production; the commodification of Black pain and suffering; the unique style and aesthetics of regional flows; Hip Hop's enduring problem with misogyny and the glorification of violence; creativity and community; and many other relevant themes that pertain to Black cultural production.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC395H1 (offered as "Sociology of Hip Hop") taken in Fall 2012, SOC396H1 (offered as "Sociology of Hip Hop") taken in Fall 2014, SOC394H1 (offered as "Sociology of Hip Hop") taken in Winter 2017 or 2018, SOC393H1 (offered as "Sociology of Hip Hop") taken in Winter 2020, SOC386H1 (offered as "Sociology of Hip Hop") taken in Winter 2021 or 2022, Summer 2021, Fall 2022

Breadth Requirements: Society and its Institutions (3)

Course Experience: University-Based Experience

SOC381H1 - Culture and Inequality

Hours: 24L

How location in socioeconomic, ethnic, gender, and generational groups shapes individual cultural repertoires; how culture affects individual positions in stratification hierarchies; and the role of culture in group boundaries and struggles.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC281H1, SOC348H1

Breadth Requirements: Society and its Institutions (3)

SOC383H1 - The Sociology of Women and International Migration

Hours: 24L

Examines the international migration of women in postindustrial economies with emphasis on Canada. Topics include: theories of female migration; the impacts of immigration policies; migration trends and entry status; integration issues pertaining to family, language knowledge, citizenship and economic status; labour market barriers and public policy considerations.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC342H1

Breadth Requirements: Society and its Institutions (3)

SOC386H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 200+ level

Breadth Requirements: Society and its Institutions (3)

SOC387H1 - New Topics in Sociology

Hours: 24L

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-sociology/>

Prerequisite: 1.0 SOC credit at the 200+ level

Breadth Requirements: Society and its Institutions (3)

SOC388H1 - Sociology of Everyday Life

Hours: 24L

This course explores the phenomenological and organizational foundation of everyday experience. It focuses on the structure and social interactions that shape everyday life, and explains the social order that makes everyday life seem smooth and relatively effortless. The course offers experience in qualitative research and writing.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC344H1

Breadth Requirements: Society and its Institutions (3)

SOC389H1 - Sociology of Scandals

Hours: 24L

Scandals – corporate, political, or bureaucratic – pervade media reporting and public debate. This course takes up scandals as sociological events: what are the causes of scandals? How are scandals ‘made’? How are scandals represented? And what are the consequences of scandals: do they discredit some actors, and lead to cultural, institutional, and organizational change? Do they lead to reform, used for new professional mobilization, new forms of regulation and oversight, targeted for legal intervention, or do they generate new political shifts, or new memories or narratives? Or are they ignored? The course will also pay attention to how scandals are made public: leaks, investigations, whistleblowers, and media reporting, and the framing of events as scandals worthy of public condemnation. Finally, with scandals often thought of as singular, this course allows students to consider what is in common between these events.

Prerequisite: 1.0 SOC credit at the 200+ level

Exclusion: SOC341H1

Breadth Requirements: Society and its Institutions (3)

SOC390Y1 - Independent Research

This course is by application, submitted to the Department by the Monday before the term begins. Students work independently with a professor in the Department who acts as research supervisor. There are no formal class meetings, lectures, or readings other than what is agreed to with the supervisor. Professors accept supervisory responsibility at their discretion. Students approach a professor working in the same sub-discipline of sociology. This course is not eligible for CR/NCR option. For further details, including the application form, please visit our website at: <http://sociology.utoronto.ca/st-george-campus/courses-3/independent-research-course/>

Prerequisite: Students must have completed 10.0 credits towards their degree, which includes a 0.5 credit SOC course at the 200+ level to be eligible for 300-level Independent Research.

Breadth Requirements: Society and its Institutions (3)

SOC391H1 - Independent Research

This course is by application, submitted to the Department by the Monday before the term begins. Students work independently with a professor in the Department who acts as research supervisor. There are no formal class meetings, lectures, or readings other than what is agreed to with the supervisor. Professors accept supervisory

responsibility at their discretion. Students approach a professor working in the same sub-discipline of sociology. This course is not eligible for CR/NCR option. For further details, including the application form, please visit our website at: <http://sociology.utoronto.ca/st-george-campus/courses-3/independent-research-course/>

Prerequisite: Students must have completed 10.0 credits towards their degree, which includes a 0.5 credit SOC course at the 200+ level to be eligible for 300-level Independent Research.

Breadth Requirements: Society and its Institutions (3)

SOC392H1 - Independent Research

This course is by application, submitted to the Department by the Monday before the term begins. Students work independently with a professor in the Department who acts as research supervisor. There are no formal class meetings, lectures, or readings other than what is agreed to with the supervisor. Professors accept supervisory responsibility at their discretion. Students approach a professor working in the same sub-discipline of sociology. This course is not eligible for CR/NCR option. For further details, including the application form, please visit our website at: <http://sociology.utoronto.ca/st-george-campus/courses-3/independent-research-course/>

Prerequisite: Students must have completed 10.0 credits towards their degree, which includes a 0.5 credit SOC course at the 200+ level, to be eligible for 300-level Independent Research.

Breadth Requirements: Society and its Institutions (3)

SOC393Y0 - Selected Topics in Sociological Research

SOC393H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 200+ level

Breadth Requirements: Society and its Institutions (3)

SOC394H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 200+ level
Breadth Requirements: Society and its Institutions (3)

SOC395H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 200+ level
Breadth Requirements: Society and its Institutions (3)

SOC396H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 200+ level
Breadth Requirements: Society and its Institutions (3)

SOC397H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 200+ level
Breadth Requirements: Society and its Institutions (3)

SOC398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

Prerequisite: Minimum of one SOC course at the 300+ level
Breadth Requirements: Society and its Institutions (3)

SOC398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

Prerequisite: Minimum of one SOC course at the 300+ level
Breadth Requirements: Society and its Institutions (3)

SOC399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

SOC408H1 - Advanced Studies in Organizations

Previous Course Number: SOC489H1
Hours: 24L

This course covers central issues in the field of organizational sociology. It explores different perspectives on why complex organizations look and operate the way that they do, and examines the social consequences of their behavior. The first part of the course focuses on the evolution of the modern firm. We will trace the history of different models of management and strategy, and evaluate their relative efficacy. The second part of the course examines how organizations shape, and are shaped by, their environments. The third part of the course will explore how organizational behavior influences social inequality, and how social inequality shapes the way that modern organizations function. We will make use of both social scientific analyses and Harvard Business School case studies. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level
Exclusion: SOC489H1 (Topics: Sociology of Organizations), offered in Fall 2017 and Fall 2019
Breadth Requirements: Society and its Institutions (3)

SOC409H1 - Sexuality and Research Design

Previous Course Number: SOC485H1
Hours: 24L

Research designs are much like jigsaw puzzles, but harder: they require scholars to carefully connect a variety of distinct yet intricately linked pieces into a thematically consistent, practical and defensible whole. Few tasks in the research process are as commonplace and as riddled with difficulty. This semester length course will provide a forum for students to compose a research design on the

topic of sexuality using qualitative approaches that include in-depth interview and ethnography. Throughout the course, students will read a variety of works that describe the goals, procedures, and underlying logic of research design. These works will draw from articles and chapters on methodological problems and issues, and also from actual studies that use in-depth interview and ethnography in sexuality studies. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level

Exclusion: SOC485H1 (Topics: Sexuality of Research Design), offered in Fall 2017, Winter 2019, Fall 2019, SOC497H1 (Topics: Sexuality of Research Design), offered in Fall 2016

Breadth Requirements: Society and its Institutions (3)

SOC412H1 - Medicalization of Deviance

Hours: 24L

This course examines the sociological implications associated with the growing dominance of psychiatry over designating and managing the margins of 'normality' and 'deviance.' It covers the evolution of the DSM and rise of deinstitutionalization, the importance of stigma and symbolic interactionist understandings of psychiatric diagnoses, and the methods of social control used to mitigate risk and reduce social deviance within the psychiatric and criminal justice systems. Emphasis will be placed on understanding the social implications of mental health labels. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level

Recommended Preparation: SOC313H1

Breadth Requirements: Society and its Institutions (3)

SOC413H1 - Sociology of Punishment

Hours: 24L

This course considers the history of penology, theories of penal development and current trends. Particular attention will be paid to cross-national variations in punishment and what these reveal about the relevance of particular theories and the importance of culture in understanding historical developments in punishment. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level

Exclusion: WDW340H1

Recommended Preparation: SOC313H1/ SOC315H1/ SOC212H1

Breadth Requirements: Society and its Institutions (3)

SOC422H1 - Advanced Studies in Political Sociology

Hours: 24L

This fourth year course will provide an advanced treatment of selected topics in political Sociology. Specific topics to be covered are the relationship between political systems and cleavage voting, the relationship between social class and attitudes and voting, the post-materialist thesis, social capital and civic participation, gender politics, the various varieties, causes and effects of welfare states, and social movements. The course will have both a Canadian and international focus. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

SOC427H1 - Families and Health

Hours: 24L

Examines the competing theoretical, policy and therapeutic responses to a variety of family health problems, including addictions, chronic physical illnesses, and mental illness, as well as the effects of illness on family life and family coping. The links between theory and practice provide the basis for discussion of knowledge transfer. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level

Recommended Preparation: SOC314H1/ SOC363H1/ SOC364H1/ SOC478H1

Breadth Requirements: Society and its Institutions (3)

SOC448H1 - Sociology & Emotions

Hours: 24L

From social cohesion to intergroup violence, emotional processes influence social outcomes. Moral aspects of experience in particular are linked to emotions such as shame and pride. Students in this course will review major theories of, and a variety of empirical approaches to, the link between social and emotional processes. They will be encouraged to extend ideas and analyses in the published literature to new topics. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level (preferably selected from the Recommended Preparation list for this course)

Recommended Preparation: SOC313H1/ SOC355H1/

SOC362H1**Breadth Requirements:** Society and its Institutions (3)**SOC460H1 - Global Inequalities and Contentious Politics****Previous Course Number:** SOC495H1**Hours:** 24L

Global Inequality and Contentious Politics: This is a seminar course designed to understand global inequalities and contentious politics. Inequality has been one of the primary subjects in sociological inquiries and its scope naturally expands to a global dimension as our societies are increasingly shaped by international connections. This seminar focuses on understanding various manifestations of global inequalities intersected by international hierarchy, race, gender, and class. Yet, these divisions and injustices are neither static nor unchallenged as people react to these realities via divergent methods. This class will read major theoretical approaches to social movements and examine contentious mobilizations taking place in different geographies around the world to reshape the global order ridden with disparities. Empirical cases of contentious activism include anti-globalization protest, the Occupy movement, campaigns for migrant care workers, resistance against American military bases, and the Me Too movement. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level**Exclusion:** SOC494H1 (Topics: Global Inequalities and Contentious Politics), offered in Winter 2019, SOC495H1 (Topics: Global Inequalities and Contentious Politics), offered in Winter 2020**Breadth Requirements:** Society and its Institutions (3)**SOC463H1 - Mental Health and Education****Previous Course Number:** SOC493H1**Hours:** 24L

In this course, we examine institutions of higher education as unique social contexts within which student mental health unfolds. In doing so, we will address mediating and moderating factors, which characterize the unique and varied socio-emotional experiences of students attending post-secondary. As such, we will distinguish and clarify social approaches to studying mental health – focusing on mentorship, funding, social support, academic demands and healthcare resources – from mental illness as characterized in medical disciplines. Students will be expected to read thoroughly and apply insights from the course to authentic mental health concerns facing institutions of higher education today. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level**Exclusion:** SOC493H1 (Topics: Mental Health and Education), offered in Fall 2018 and Winter 2020**Breadth Requirements:** Society and its Institutions (3)**SOC465H1 - Advanced Studies in Gender****Hours:** 24L

This course explores major questions about the nature of gender and gender inequality. The course requires a careful review of key theoretical and empirical work addressing one of these questions and the completion of a research project. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level.**Recommended Preparation:** SOC214H1/ SOC366H1/ SOC367H1/ SOC365H1**Breadth Requirements:** Society and its Institutions (3)**SOC470H1 - Sociology of Martial Arts****Hours:** 24L

This course will tackle some of the messy martial arts genealogy that gave rise to contemporary MMA, while also delving into theoretical work on the emotions felt in violence, the moral worlds of gyms and dojos, the process of learning how to fight, women in the UFC, and a host of other issues related to jiu jitsu, judo, and mixed martial arts more generally. Students will have the opportunity to participate in martial arts practices.

Prerequisite: 1.0 SOC credit at the 300+ level.**Exclusion:** SOC485H1 (Topic: *Sociology of Martial Arts*) offered in Fall 2021 and 2022.**Breadth Requirements:** Society and its Institutions (3)**Course Experience:** University-Based Experience**SOC478H1 - Social Context of Public Policy****Hours:** 24L

This course explores how policy processes and frameworks need to be evaluated in light of the social context in which they are developed. Factors to be considered include the interplay between public values and expectations and public policy; the implications of cultural diversity and demographic change, and understandings of ethical principles of conduct in public organizations. A related goal is to help students learn how to use empirical research to answer highly contested

issues in policy circles and in public life. These objectives are pursued by introducing students to major trends in inequality in Canada, assessing these trends within a comparative context, reflecting on their normative implications, and examining alternative policy responses to these developments. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level.

Recommended Preparation: SOC303H1/ SOC304H1/ SOC314H1/ SOC363H1/ SOC364H1/ SOC365H1/ SOC371H1/ SOC383H1

Breadth Requirements: Society and its Institutions (3)

SOC479H1 - Advanced Studies in Social Movements

Hours: 24L

This course focuses on current debates and research findings in the study of social movements. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level (preferably selected from the Recommended Preparation list for this course)

Exclusion: SOCC04H3

Recommended Preparation: SOC371H1/ SOC478H1

Breadth Requirements: Society and its Institutions (3)

SOC481H1 - Culture and Social Networks

Hours: 24L

Relationships between various forms of culture and the networks connecting both individual people and organizations creating culture. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level (preferably selected from the Recommended Preparation list for this course)

Recommended Preparation: SOC355H1/ SOC382H1

Breadth Requirements: Society and its Institutions (3)

SOC483H1 - Culture and Cognition

Hours: 24L

This course examines the social foundations of thinking and action, with a focus on how individuals think and act through shared cognitive schemas that are embedded in larger social structures. The course is organized around a wide-ranging array of classical and contemporary theories

that help explain the various factors that shape culture and cognition. There is a research component to put this analytical understanding into practice. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level

Exclusion: SOC483Y1

Breadth Requirements: Society and its Institutions (3)

SOC485H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-sociology/>. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

SOC486H1 - Advanced Topics in Urban Sociology

Hours: 24L

This course offers real world observation and abundant examples that speak to the strengths and limitations of particular theory, data, and methods for studying urban problems. Students undertake a supervised research project that involves identifying, observing and reflecting on real phenomena in the urban environment. Restricted to 4th-year sociology specialists and majors.

Prerequisite: 1.0 SOC credit at the 300+ level

Recommended Preparation: SOC312H1/ SOC364H1/ SOC384H1/ SOC205H1

Breadth Requirements: Society and its Institutions (3)

SOC488H1 - Mental Health over the Life Course

Hours: 24L

This course is a research-based exploration of mental health at all stages of life, from birth to death. It emphasizes the long-term consequences for mental health of childhood adversities and disadvantage, major life transitions, and turning points in the life course. Restricted to 4th-year sociology majors and specialists.

Prerequisite: 1.0 SOC credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

SOC489H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Restricted to 4th-year sociology majors and specialists. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

SOC490Y1 - Independent Research

This course is by application, submitted to the Department by the Monday before the term begins. Students work independently with a professor in the Department who acts as research supervisor. There are no formal class meetings, lectures, or readings other than what is agreed to with the supervisor. Professors accept supervisory responsibility at their discretion. Students approach a professor working in the same sub-discipline of sociology. This course is not eligible for CR/NCR option. For further details, including the application, please visit our website at: <http://sociology.utoronto.ca/st-george-campus/courses-3/independent-research-course/>

Prerequisite: Students must have completed 15.0 credits towards their degree, which includes a 0.5 credit SOC course at the 300+ level to be eligible for 400-level Independent Research.

Breadth Requirements: Society and its Institutions (3)

SOC491H1 - Independent Research

This course is by application, submitted to the Department by the Monday before the term begins. Students work independently with a professor in the Department who acts as research supervisor. There are no formal class meetings, lectures, or readings other than what is agreed to with the supervisor. Professors accept supervisory responsibility at their discretion. Students approach a professor working in the same sub-discipline of sociology. This course is not eligible for CR/NCR option. For further details, including the application, please visit our website at: <http://sociology.utoronto.ca/st-george-campus/courses-3/independent-research-course/>

Prerequisite: Students must have completed 15.0 credits towards their degree, which includes a 0.5 credit SOC course at the 300+ level to be eligible for 400-level Independent Research.

Breadth Requirements: Society and its Institutions (3)

SOC492H1 - Independent Research

This course is by application, submitted to the Department by the Monday before the term begins. Students work independently with a professor in the Department who acts as research supervisor. There are no formal class meetings, lectures, or readings other than what is agreed to with the supervisor. Professors accept supervisory responsibility at their discretion. Students approach a professor working in the same sub-discipline of sociology. This course is not eligible for CR/NCR option. For further details, including the application, please visit our website at: <http://sociology.utoronto.ca/st-george-campus/courses-3/independent-research-course/>

Prerequisite: Students must have completed 15.0 credits towards their degree, which includes a 0.5 credit SOC course at the 300+ level to be eligible for 400-level Independent Research.

Breadth Requirements: Society and its Institutions (3)

SOC493H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Restricted to 4th-year sociology majors and specialists. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

SOC494H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Restricted to 4th-year sociology majors and specialists. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

SOC495H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Restricted to 4th-year sociology majors and specialists. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

SOC496H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Restricted to 4th-year sociology majors and specialists. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

SOC497H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Restricted to 4th-year sociology majors and specialists. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

SOC498H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Restricted to 4th-year sociology majors and specialists. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

SOC499H1 - New Topics in Sociology

An opportunity to explore new topics in sociology. Topics vary from year to year based on the instructor. Restricted to 4th-year sociology majors and specialists. Consult the Departmental website: <http://sociology.utoronto.ca/st-george-campus/courses-3/new-topics-in-s...>

Prerequisite: 1.0 SOC credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

South Asian Studies

Introduction

Students study South Asia in an approach attentive to global formations. They are introduced to the study of South Asia—Bangladesh, India, Pakistan, Nepal, Sri Lanka—through a wide angle view of Asian modernities, political economies, and cultures, all the while delving into specialist close-ups of South Asia. With open access to comparative courses in the Contemporary Asian Studies program, students can learn from specialists in South, East, and Southeast Asia.

With a curriculum motivated by the moving present—the changing face of South Asia today—the South Asian Studies minor offers rigorous training in major debates and questions in the rich field of South Asian Studies, and provides a basic foundation for many directions of future study. From historical contexts of ethnic conflict, to postcolonial readings of ancient traditions, to the politics of religious and ethnic identities, to the workings of vast-scale democracy and capitalism, to the worlds of cinema and public culture, students are exposed to the dynamic landscapes—political, material, and mythic—that constitute South Asia today.

Students may also be interested in the closely connected Contemporary Asian Studies program.

Contact Information

Asian Institute, Munk School of Global Affairs & Public Policy

1 Devonshire Place, room 228N
ai.asianstudies@utoronto.ca
 416-946-8832

Website: <https://munkschool.utoronto.ca/ai/south-asian-studies-minor>

South Asian Studies Programs

South Asian Studies Minor (Arts Program) - ASMIN1333

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

1. SAS114H1
2. 1.0 credit from: CAS200H1, CAS201H1, CAS202H1
3. SAS318H1 or HIS282Y1
4. 0.5 credit in 300-level CAS courses
5. Additional 1.0 or 1.5 credits (as necessary to total 4.0 credits in minor) from SAS and CAS courses or the list of eligible courses offered by other departments found below.

Electives:

CDN230H1, ENG369H1, FAH364H1*, HIS282Y1, HIS470H1, HIS480H1, HIS494H1, HIN211H5 (UTM), HIN212H5 (UTM), HIN312H5 (UTM), HIN313H5 (UTM), LGA70H3 (at UTSC)*, LGA71H3 (UTSC)*, MUS209H1, BPM214H1, MUN200H1*, PHL239H1, PHL339H1, POL328H1*, POL357H1, POL441H1, RLG205H1, RLG206H1, RLG208H1, RLG311H1, RLG312H1, RLG352H1, RLG355H1, RLG358H1, RLG361H1, RLG363H1, RLG365H1, RLG366H1, RLG368H1, RLG372H1, RLG373H1, RLG462H1, RLG463H1, RLG465H1*, RLG467H1, RLG478H1, RLG472H1, SOC218H1, CHC456H1

*Courses for which South Asian Studies students have priority enrolment

Note: Effective Fall 2021, courses associated with New College's Buddhism, Psychology and Mental Health program will have the new "BPM" designator. In addition, courses associated with St. Michael's College's Christianity and Culture program will have the new "CHC" designator.

Courses Eligible for Program Credit

Students who wish to count non-CAS or SAS courses towards the program that are not listed in the program completion requirements (including U of T courses and transfer credits) must seek permission from the program director IN ADVANCE. Course approval is not guaranteed and will be given at the discretion of the program director. Please consult the program advisor at ai.asianstudies@utoronto.ca with questions.

South Asian Studies Courses

SAS114H1 - Introduction to South Asian Studies

Previous Course Number: SAS114Y1

Hours: 24L

An interdisciplinary introduction to South Asian Studies emphasizing inquiry and critical analysis, drawing attention to the specificities of individual nations as well as the factors (historical, political, economic and cultural) that define South Asia as a region. Some attention will be paid to the South Asian Diaspora.

Exclusion: NEW114Y1, SAS114Y1

Breadth Requirements: Society and its Institutions (3)

CAS200H1 - Introduction to Contemporary Asian Studies

Hours: 24L

This course is an introduction to Contemporary Asian Studies. It covers detailed case study material from South Asia, Southeast Asia, and East Asia. It introduces students to the interdisciplinary study of political, sociocultural and economic interactions among these regions, as well as the transnational forces shaping internal dynamics throughout Asia. In addition, it examines the ways that forces stemming from Asia are affecting global processes, pushing scholarship to engage questions about colonialism, nationalism, "race," religion, markets, urbanization, migration, and mass mediated culture. This course provides preparation for more advanced courses on Asia and globalization and provides an introductory gateway for the Contemporary Asian Studies major and minor. May be taken in the first year of studies.

Breadth Requirements: Society and its Institutions (3)

CAS201H1 - Global Asian Studies: Insights and Concepts

Previous Course Number: CAS200Y1

Hours: 24L

This course addresses Asia empirically in contemporary global formations and as an idea in the global imagination. It introduces students to concepts and theories central to scholarship on Asia and its transnational formations. It provides foundational theoretical and conceptual material to understand global issues as they play out in the politics,

economies, cultures and contemporary social worlds of contemporary Asian sites. Interdisciplinary analytical and research concepts are introduced to provide area studies grounding. This course provides preparation to delve into deeper research on Asia connected to broad questions about the natures of democracy, authoritarianism, market formation, social justice, and the media of cultural expression. It informs students aiming to take more advanced courses on Asia and globalization and provides one part of the foundation for the Contemporary Asian Studies major and minor. CAS201H1 introduces the theoretical and conceptual frameworks that are explored through further grounded empirical case studies in upper year CAS courses.

Exclusion: CAS200Y1

Breadth Requirements: Society and its Institutions (3)

CAS202H1 - Global Asian Studies: Sites and Practices

Previous Course Number: CAS200Y1

Hours: 24L

This interdisciplinary course explores a variety of sites and topics in South, Southeast, and East Asia. It explores themes including contemporary and historical articulations of socio-economic development, (post)colonial political formations, urbanization processes, climate change, labour struggles, gender studies, migration, citizenship, and social justice. The course examines the diversity of Asian modernities, cross-regional linkages, and changing approaches to area studies over time. It provides a foundation for the Contemporary Asian Studies major and minor, preparing students for taking more advanced courses on Asia in the global context.

Exclusion: CAS200Y1

Breadth Requirements: Society and its Institutions (3)

CAS310H1 - Comparative Colonialisms in Asia

Hours: 24L

This course analyzes the impact of colonialism in South, East, and Southeast Asia and the various ways in which pre-colonial traditions intersect with and reshape colonial and postcolonial process across the various regions of Asia. The course will examine the conjunctures of economy, politics, religion, education, ethnicity, gender, and caste, as these have played out over time in the making and re-making of Asia as both idea and place. Attention will be paid to postcolonial and indigenous theories, questions of 'the colonial' from the perspective of Asian Studies, and debates about the meaning of postcolonialism for the study of Asia now and in the future.

Prerequisite: 0.5 CAS credit at the 200-level

Breadth Requirements: Society and its Institutions (3)

SAS318H1 - Colonialism and Tradition

Hours: 24L

This course analyzes the impact of colonialism in South Asia and the various ways in which tradition intersects with and has reshaped colonialism in postcolonial South Asia. The course will examine the role of religion, education, ethnicity, gender, and caste. Some attention will be paid to postcolonial and indigenous theory.

Prerequisite: Completion of 6.0 credits

Recommended Preparation: SAS114H1

Breadth Requirements: Society and its Institutions (3)

CAS320H1 - Comparative Modernities in Asia

Hours: 24L

Since at least the late 1700s, the effects of capitalism across the globe have profoundly transformed the landscapes of human livelihood, consumption, production and governance in Asia. While colonial empires have declined, new empires have emerged, and a growing number of countries have witnessed the rise of nationalism and independent states, social, political and technological revolutions, and most recently neoliberal globalization. This course theorizes and explores these dramatic changes in a comparative framework. It is aimed at students wishing to better understand the great transformations of modern Asia in a global context.

Prerequisite: 0.5 CAS credit at the 200-level

Recommended Preparation: CAS202H1

Breadth Requirements: Society and its Institutions (3)

CAS350H1 - Asian Youth Cultures

Hours: 24L

In focusing on youth in Asia, this course brings together two disputed cultural formations of substantial contemporary importance. Both youth and Asia are increasingly invoked on the global stage in support of a wide range of interests. Examining practices of young people and the idea of youth in the context of Asia requires critical attention to the promises and fears that attach to the rise of Asian economies, international demographic transitions, the growth of a global middle-class, increasing consumption disparities, changing immigration patterns, expanding technological skills,

global/local environmental concerns, and young people's shifting political priorities and loyalties. The course may feature a significant amount of social theory, with authors such as Michel Foucault, Roland Barthes, Louis Althusser, and Stuart Hall.

Prerequisite: 6.0 credits

Recommended Preparation: 0.5 CAS credit at the 200-level

Breadth Requirements: Creative and Cultural Representations (1)

CAS360H1 - Asian Genders

Hours: 24L

This course will explore ways that gender is mobilized and produced in parts of Asia. It seeks to understand gender and sexuality in their diversity and in attempts to "fix" or locate it in various bodies and places. Attempts will be made to see how gender is made knowable in terms of sexuality, medicine, nation, class, ethnicity, religion, and other discourses. The course assumes a willingness to read challenging theory – such as the writings of Judith Butler, Michel Foucault, and Eve Sedgwick – and asks that students commit to regular attendance.

Prerequisite: 6.0 credits

Recommended Preparation: 0.5 CAS credit at the 200-level

Breadth Requirements: Society and its Institutions (3)

CAS370H1 - Asian Cities

Hours: 24L

This course offers a multidisciplinary perspective of urban life in Asia. The thematic focus will be on how the urban intersects with modernities and postcolonial formations. Drawing on recent scholarship in the social sciences and the humanities, we will examine the realignment of cultural, political, and economic forces associated with Asia's diverse processes of urbanization.

Prerequisite: 6.0 credits

Recommended Preparation: 0.5 CAS credit at the 200-level

Breadth Requirements: Society and its Institutions (3)

SAS390H1 - Special Topics in South Asian Studies

Hours: 24L

Course content varies in accordance with the interest of the instructor.

Prerequisite: SAS114H1 and completion of 9.0 credits. Students who do not meet the prerequisite are encouraged to contact the instructor.

CAS390H1 - Special Topics

Hours: 24L

Course content varies in accordance with the interest of the instructor. Check <http://munkschool.utoronto.ca/ai/cas> for an updated description.

Prerequisite: 6.0 credits

Recommended Preparation: 0.5 CAS credit at the 200-level

CAS393H1 - Independent Research

Supervised independent research on a topic agreed on by the student and a faculty supervisor before enrolment in the course. Open to advanced CAS major and minor students with a strong background in contemporary Asian studies. A maximum of one year of Independent Research courses is allowed per program. Contact hours with the supervisor may vary, but typically comprise of one hour per week. Not eligible for CR/NCR option. To enrol, please contact ai.asianstudies@utoronto.ca to request an application form, which should be filled out in consultation with the faculty supervisor and include a detailed description of the course topic, reading list, and assignments/marking scheme. Students must submit the completed form to ai.asianstudies@utoronto.ca at least one week before the start of term.

Prerequisite: 10.0 credits, an application form

CAS393Y1 - Independent Research

Supervised independent research on a topic agreed on by the student and a faculty supervisor before enrolment in the course. Open to advanced students in the CAS major and minor with a strong background in contemporary Asian studies. A maximum of one year of Independent Research courses is allowed per program. Contact hours with the supervisor may vary, but typically comprise of one hour per week. Not eligible for CR/NCR option. To enrol, please contact ai.asianstudies@utoronto.ca to request an application form, which should be filled out in consultation with the faculty supervisor and include a detailed description of the course topic, reading list, and assignments/marking scheme. Students must submit the completed form to ai.asianstudies@utoronto.ca at least one week before the start of term.

Prerequisite: 10.0 credits, an application form

CAS400H1 - Interdisciplinary Research in Methods in Contemporary Asian Studies

Hours: 24S

This seminar addresses Asian worlds – In Asia, transnationally, and locally – to cultivate new approaches to global processes and problems. The course explores key Asian sites that open new configurations for studying interactions between economic/environmental development, political change, and migration and cultural politics. It provides an advanced and systematic overview of the research methodologies that students have been exposed to throughout the CAS program. These include historical-archival, ethnographic, visual/media, and statistical/quantitative methods that allow us to map Asian political, economic, and cultural formations, and through them, global challenges. The seminar builds interdisciplinary conversations attentive to both critical problematizing and problem-solving, to qualitative and applied projects. It is the required capstone to the Contemporary Asian Studies major.

Prerequisite: 1.0 200-level CAS credit and 1.0 300-level CAS credit

Exclusion: CAS400Y1

Breadth Requirements: Society and its Institutions (3)

CAS414H1 - The Public Event in Asia

Hours: 24S

This upper-level seminar will introduce students to the interdisciplinary study of popular culture in Asia through a focus on public events. Readings about all kinds of performances, including ritual, popular protest, festivals, sports, cinema, television, digital media events, and the performing arts will help students learn methodological tools to interpret the politics and meanings of public culture as it articulates with class, ethnicity, religious community, gender and caste. The course will furthermore familiarize students with a range of theoretical lenses for conceptualizing the different meanings of the “event” and the “public” from a perspective grounded in the histories of South Asia, Southeast Asia, East Asia, and their diasporas.

Prerequisite: At least 14.0 credits

Exclusion: NEW414H1, SAS414H1

Recommended Preparation: 1.0 credit in 200 level CAS courses; 1.0 credit in 300 level CAS courses

Breadth Requirements: Creative and Cultural Representations (1)

CAS420H1 - Asia and the New Global Economy

Previous Course Number: JPA420H1

Hours: 24S

This course explores the rise of Asia and its integration into the new global economy (labour, capitalism, knowledge economy, economic nationalism, inequality, gender, the meaning of capitalism, democracy, among others), exposing students to diverse disciplinary perspectives. Geographical coverage is pan-Asian, including East, Southeast and South Asia.

Prerequisite: 14.0 credits

Exclusion: JPA420H1

Recommended Preparation: 1.0 200-level CAS credit and 1.0 300-level CAS credit

Breadth Requirements: Society and its Institutions (3)

CAS430H1 - Nationalism and Revolution in Asia

Hours: 24L

This course explores the far-reaching social, political, and cultural transformations in modern East, Southeast, and South Asia, focusing on the twentieth-century revolutionary histories and struggles to establish modern nation-states. The course adopts a topical approach within a chronological and comparative framework to highlight major historical movements and theoretical issues significant to the Asian experience.

Prerequisite: 14.0 credits

Exclusion: ASI430H1

Recommended Preparation: 1.0 200-level CAS credit and 1.0 300-level CAS credit

Breadth Requirements: Society and its Institutions (3)

CAS450H1 - Asian Pathways Research Practice

Hours: 24S

This seminar builds on the systematic overview of research methodologies of the Contemporary Asian Studies major and its capstone course, CAS400H1. CAS450H1 provides students with the opportunity to research questions of contemporary relevance stemming from Asia and its transnational networks and communities. Addressing a range of methodologies, including historical-archival, ethnographic, visual/media, and statistical/quantitative, the course emphasizes research experience outside the classroom, in Asia as well as locally with communities in Toronto. Students will develop

their own research contributions while working collaboratively.

Prerequisite: 14.0 credits, including 1.0 200-level CAS credit and 1.0 300-level CAS credit

Exclusion: CAS400Y1

Breadth Requirements: Society and its Institutions (3)

SAS490H1 - Special Topics in South Asian Studies

Hours: 24S

Course content varies in accordance with the interest of the instructor. Please check the Arts & Science timetable for an updated title and description.

Prerequisite: 14.0 credits including at least 1.0 credit from SAS or CAS courses. Students who do not meet these prerequisites are encouraged to contact the Department.

Breadth Requirements: Society and its Institutions (3)

CAS498H1 - Independent Research

Supervised independent research on a topic agreed on by the student and a faculty supervisor before enrolment in the course. Open to advanced CAS major and minor students with a strong background in contemporary Asian studies. A maximum of one year of Independent Research courses is allowed per program. Contact hours with the supervisor may vary, but typically comprise of one hour per week. Not eligible for CR/NCR option. To enrol, please contact ai.asianstudies@utoronto.ca to request an application form, which should be filled out in consultation with the faculty supervisor and include a detailed description of the course topic, reading list, and assignments/marking scheme. Students must submit the completed form to ai.asianstudies@utoronto.ca at least one week before the start of term.

Prerequisite: 14.0 credits, including CAS200Y1/(CAS201H1 and CAS202H1), CAS310H1

Recommended Preparation: CAS320H1

CAS498Y1 - Independent Research

Supervised independent research on a topic agreed on by the student and a faculty supervisor before enrolment in the course. Open to advanced CAS major and minor students with a strong background in contemporary Asian studies. A maximum of one year of Independent Research courses is allowed per program. Contact hours with the supervisor may vary, but typically comprise of one hour per week. Not eligible for CR/NCR option. To enrol, please contact ai.asianstudies@utoronto.ca to request an

application form, which should be filled out in consultation with the faculty supervisor and include a detailed description of the course topic, reading list, and assignments/marking scheme. Students must submit the completed form to ai.asianstudies@utoronto.ca at least one week before the start of term.

Prerequisite: 14.0 credits, including 1.0 200-level CAS credit and 1.0 300-level CAS credit

Spanish

Faculty List

Professors Emeriti

J.F. Burke, MA, PhD
 K.A.A. Ellis, MA, PhD, Dr Fil, FRSC
 R.J. Glickman, AM, PhD
 J. Gulsoy, MA, PhD, D Honoris Causa, FRSC
 O. Hegyi, MA, PhD (UTM)
 P.R. Len, MA, PhD (S)
 E.G. Neglia, MA, PhD (UTM)
 A. Percival, MA, PhD
 W.L. Rolph, MA, Phil M (I)
 R. Skyrme, MA, M Litt, PhD (S)
 R. Sternberg, MA, PhD (SM)
 M.J. Valdés, MA, PhD, FRSC, Miembro
 Correspondiente de la Academia Mexicana (U)
 J.R. Webster, MA, PhD, FRSC (SM)

Professor and Chair

A.T. Pérez-Leroux, MA, PhD

Professors

R. Davidson, MA, PhD
 A.T. Pérez-Leroux, MA, PhD
 S. Rupp, MA, M Phil, PhD
 R. Sarabia, MA, PhD

Associate Professors

S. Antebi, MA, PhD
 M.C. Cuervo, PhD
 Y. Iglesias, MA, PhD
 E. Jagoe, MA, PhD
 S. Munjic, MA, PhD
 N.E. Rodríguez, PhD

Associate Professor, Teaching Stream

M. Ramírez, MA, PhD

Assistant Professor, Teaching Stream

J.C. Rocha Osornio, MA, PhD

Lecturer

I. Fernández Peláez, MA, PhD

Introduction

Overview

Spanish is one of the most widely spoken languages in the world, with over 590 million speakers. It is the official language in 21 countries throughout Europe, Africa, and the Americas, making it an essential tool for global

communication and business. Canada has strong commercial ties with the world's two largest Spanish-speaking countries: Mexico (127 million) and the United States of America (57 million).

Spanish opens the door to the study of a rich range of cultural expressions in literature, film, and art, from medieval and early modern transatlantic world to the literary and cultural productions of contemporary Spanish and Spanish American societies. The department offers a wide selection of courses at all levels in literature, culture, and linguistics. Students are encouraged to complement and expand on the training they receive in these courses by taking courses in other academic units. By the time of their graduation, our students acquire skills to reflect critically on the world in which they live and a deep knowledge of Hispanic cultures.

Spanish also opens the door to the study of the Romance language family. The Department offers students the opportunity to advance their language skills through the systematic reflection on the language structure, from the sound system to the morphology and syntax. Through a variety of courses with a theoretical and experimental focus in linguistics, students acquire basic skills that can be transferred to teaching or research programs. Through collaboration with other language and linguistics programs, students are provided with opportunities and training to conduct research in linguistics with a focus on the Spanish language.

What can I do with a degree in Spanish?

Plenty! Proficiency in Spanish can open a wide range of career opportunities, and Canada's multicultural landscape and its trade relationships with Spanish-speaking countries can provide ample job opportunities for Spanish speakers.

In addition, some graduate academic programs or professional fields may require proficiency in a second language, and Spanish is often a popular choice due to its global significance and relevance in various industries.

The skills that students acquire through the study of Spanish and of the Spanish-speaking world either prepare them directly for or are an asset in some of the following fields:

- media, journalism, marketing, public relations
- domestic government services and NGOs; foreign services and foreign affairs specialist; international development; political aid; policy analyst
- commerce, finances, tourism, and hospitality
- post-graduate studies and academic careers; cultural work
- editing, publishing, translation, education
- library and information sciences

- careers in the health profession, including medicine, speech pathology and audiology
- computational linguistics, speech recognition, and synthesis

For the Portuguese component, please see the [Portuguese Program](#) in this Calendar.

For further information, please contact us in the Department of Spanish and Portuguese, Victoria College, Room 208.

- Website: <https://www.spanport.utoronto.ca/>
- Telephone: (416) 813-4080
- Email: spanport@chass.utoronto.ca
- Associate Chair, Undergraduate Studies: (416) 813-4082
 - Email: spanport.undergraduate@utoronto.ca

The Department offers Specialist, Major and Minor programs, as well as a language citation certificate.

Placement Test

All students who are interested in Spanish studies should take the online placement test by carefully following the instructions found in the following link:

<https://www.spanport.utoronto.ca/undergraduate/programs/spanish>

The placement test can only be taken once. Misrepresenting previous knowledge of Spanish is considered a serious academic offense. If you have any questions about your placement level, please contact the [Associate Chair, Undergraduate Studies](#) and you will receive personal advice for placement in the language sequence.

Students should contact the Associate Chair, Undergraduate Studies early on in the course of their university career to receive advice on how to proceed with their studies and to thus assure that they can receive their degree by the time of planned graduation. For further information, please visit us in the Department of Spanish and Portuguese, Victoria College, Room 208, email spanport.undergraduate@utoronto.ca, or call (416) 813-4080.

Spanish Programs

Spanish Specialist (Arts Program) - ASSPE0623

Spanish Studies at the University of Toronto are mainly, but by no means exclusively, concerned with the language and literature of the Spanish-speaking peoples. Courses in Hispanic linguistics, in business Spanish, in the history and structure of the Spanish language and literature are complemented by studies of the socio-political, artistic, and intellectual history of both Spain and Spanish America. Spanish and Portuguese form part of the interdisciplinary programs in European Studies and Latin American Studies.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10.0 credits, including at least 1.0 400-level credit)

Students complete 10.0 credits, including:

1. [SPA258H1](#)
2. 0.5 credit in Hispanic linguistics from: [SPA322H1](#), [SPA324H1](#), [SPA326H1](#), [SPA368H1](#), [SPA421H1](#), [SPA422H1](#), [SPA423H1](#), [SPA424H1](#)
3. 0.5 credit in Spanish Peninsular literature from: [SPA327H1](#), [SPA341H1](#), [SPA344H1](#), [SPA345H1](#), [SPA348H1](#), [SPA350H1](#), [SPA352H1](#), [SPA368H1](#), [SPA425H1](#), [SPA435H1](#), [SPA439H1](#), [SPA450H1](#), [SPA456H1](#)
4. 0.5 credit in Spanish American literature from: [SPA377H1](#), [SPA378H1](#), [SPA381H1](#), [SPA382H1](#), [SPA383H1](#), [SPA384H1](#), [SPA385H1](#), [SPA386H1](#), [SPA387H1](#), [SPA389H1](#), [SPA467H1](#), [SPA475H1](#), [SPA480H1](#), [SPA482H1](#), [SPA486H1](#), [SPA488H1](#)
5. [SPA420H1](#)
6. [SPA454H1](#)/ [SPA489H1](#)
7. 7.0 additional SPA credits

- Students with previous knowledge of Spanish can start taking language courses at the 200- or 300-level, depending on their placement test results, and after consultation with the department. Students who misrepresent their previous knowledge of the language commit a serious academic integrity offense. The recommended sequences of language courses are as follows.

For students with no previous or very limited knowledge of Spanish:

([SPA101H1](#), [SPA102H1](#))/ [SPA100Y1](#),
([SPA201H1](#), [SPA202H1](#))/ [SPA220Y1](#),

(SPA301H1, SPA302H1)/ SPA320Y1,
SPA420H1

For students who have a beginner's knowledge of Spanish:

SPA102H1 (for students who took Spanish in high school),

(SPA201H1, SPA202H1)/ SPA220Y1,

(SPA301H1, SPA302H1)/ SPA320Y1,

SPA420H1

For students who are heritage speakers of Spanish:

(SPA205H1, SPA305H1)/ SPA219Y1,

SPA420H1

- Of these 7.0 credits, up to 2.0 credits may be taken from cognate departmental or college offerings: PRT courses at any level, LAS courses at any level, LIN courses at any level at any U of T campus, FAH326H1, GGR341H1, HIS291H1, HIS292H1, HIS390H1, HIS397H1, JLN327H1, JLN427H1, JLP315H1, MUS305H1, NMC376H1, POL305Y1, POL305H1, POL325H1, POL360H1, POL442H1

Consult our website

<https://www.spanport.utoronto.ca/> for the updated list of courses pre-approved for program credit or reach out to our Associate Chair of Undergraduate Studies.

4. SPA420H1

5. SPA454H1/ SPA489H1

6. 4.5 additional SPA credits

- Students with previous knowledge of Spanish can start taking language courses at the 200- or 300-level, depending on their placement test results, and after consultation with the department. Students who misrepresent their previous knowledge of the language commit a serious academic integrity offense. The recommended sequences of language courses are as follows.

For students with no previous or very limited knowledge of Spanish:

(SPA101H1, SPA102H1)/ SPA100Y1,

(SPA201H1, SPA202H1)/ SPA220Y1,

(SPA301H1, SPA302H1)/ SPA320Y1,

SPA420H1

For students with previous knowledge of Spanish: SPA102H1 (for students who took Spanish in high school),

(SPA201H1, SPA202H1)/ SPA220Y1,

(SPA301H1, SPA302H1)/ SPA320Y1,

SPA420H1

For students who are heritage speakers of Spanish:

(SPA205H1, SPA305H1)/ SPA219Y1,

SPA420H1

- Of these 4.5 credits, up to 1.0 credit may be taken from cognate departmental or college offerings: PRT courses at any level; LAS courses at any level, LIN courses at any level at any U of T campus, FAH326H1, GGR341H1, HIS291H1, HIS292H1, HIS390H1, HIS397H1, JLN327H1, JLN427H1, JLP315H1, MUS305H1, NMC376H1, POL305Y1, POL305H1, POL325H1, POL360H1, POL442H1.

A complete and updated list of eligible courses is available at the departmental website

<https://www.spanport.utoronto.ca/> or through consultation with the Associate Chair of Undergraduate Studies.

Spanish Major (Arts Program) - ASMAJ0623

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits)

Students complete 7.0 credits, including:

1. 0.5 credit in Hispanic linguistics from: SPA322H1, SPA324H1, SPA326H1, SPA368H1, SPA421H1, SPA422H1, SPA423H1, SPA424H1
2. 0.5 credit in Spanish Peninsular literature from: SPA327H1, SPA341H1, SPA344H1, SPA345H1, SPA348H1, SPA350H1, SPA352H1, SPA368H1, SPA425H1, SPA435H1, SPA439H1, SPA450H1, SPA456H1
3. 0.5 credit in Spanish American literature from: SPA377H1, SPA378H1, SPA381H1, SPA382H1, SPA383H1, SPA384H1, SPA385H1, SPA386H1, SPA387H1, SPA389H1, SPA467H1, SPA475H1, SPA480H1, SPA482H1, SPA486H1, SPA488H1

Spanish Minor (Arts Program) - ASMIN0623

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

Students complete 4.0 credits, of which up to 1.0 cognate credit may be taken in PRT. No other cognates are permitted for a Spanish Minor.

Students with previous knowledge of Spanish can start taking language courses at the 200- or 300-level, depending on their placement test results, and after consultation with the department. Students who misrepresent their previous knowledge of the language commit a serious academic integrity offense. The recommended sequences of language courses are as follows:

For students with no previous or very limited knowledge of Spanish:

(SPA101H1, SPA102H1)/ SPA100Y1,
(SPA201H1, SPA202H1)/ SPA220Y1,
(SPA301H1, SPA302H1)/ SPA320Y1,
SPA420H1

For students with previous knowledge of Spanish:
SPA102H1 (for students who took Spanish in high school),

(SPA201H1, SPA202H1)/ SPA220Y1,
(SPA301H1, SPA302H1)/ SPA320Y1,
SPA420H1

For students who are heritage speakers of Spanish:
(SPA205H1, SPA305H1)/ SPA219Y1,
SPA420H1

First-Year Foundation Seminars

The SPA195H1/ SPA196H1/ SPA197H1/ SPA198H1/ SPA199H1 seminars are designed to provide the opportunity to work closely with an instructor in a class of no more than thirty students. These interactive seminars are intended to stimulate the students' curiosity and provide an opportunity to get to know a member of the professorial staff in a seminar environment during the first year of study.

Spanish Courses

SPA101H1 - Spanish for Beginners I

Previous Course Number: SPA100Y1
Hours: 48L

Faculty of Arts & Science Language Citation

The Department of Spanish and Portuguese participates in the Faculty of Arts and Science's Language Citation initiative for Spanish.

To obtain a Language Citation in Spanish, students will complete two full credits of the language sequence courses at the 200-level or higher, with a minimum of B- in each one of the courses to be considered.

Students should note that, as explained in this Calendar, the Language Citation is not equivalent to an academic program and that enrolment in a program is not necessary in order to earn the recognition bestowed by the Citation.

For more details on eligible courses and the process to request the citation, please visit our website:
<https://www.spanport.utoronto.ca/undergraduate/spanish/citation>

Spanish: see also European Affairs, Latin American Studies

Regarding Spanish Courses

1. The Department reserves the right to place students in the language course best suited to their linguistic preparation.
2. Misrepresentation by a student of their previous knowledge of Spanish will be considered an academic integrity offense and handled accordingly.
3. Students who misrepresent their knowledge and enroll in a lower level course will be removed from such course.
4. Students who, in the department's assessment, have adequate knowledge of Spanish may be required to take Spanish literature, culture or linguistics course instead of a language course at any level.
5. All courses are taught in Spanish unless otherwise specified.

The course introduces students to activities that address a range of personal and immediate-needs topics and socio-cultural situations such as family life and daily routines and to the diverse cultures of the Spanish-speaking world through authentic materials. Students develop personal forms of expression and basic strategies for reading, listening, writing, and participating in everyday conversations. It is the first of a six-semester sequence in the Spanish Language Sequence and is designed for students with no prior knowledge of Spanish. By the end

of the semester, students can expect to have reached the Novice High level of the ACTFL scale.

Exclusion: Any one year of Spanish from Grade 10 to 12, [SPA100Y1](#), [SPA100Y5](#), [SPA102H1](#), [SPA120Y1](#), [SPA201H1](#), [SPA202H1](#), [SPA205H1](#), [SPA219Y1](#), [SPA219H5](#), [SPA220Y1](#), [SPA220Y5](#), [SPA221H1](#), [SPA301H1](#), [SPA302H1](#), [SPA305H1](#), [SPA319H5](#), [SPA320Y1](#), [SPA320Y5](#), [LGGA90Y3](#), [SPA420H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SPA102H1 - Spanish for Beginners II

Previous Course Number: SPA100Y1

Hours: 48L

The course expands students' ability to engage with activities that address a range of topics such as travel, pastimes, neighborhood issues, and sports and the cultural diversity of the Spanish-speaking world through authentic materials. Students further develop strategies for reading, listening, writing, and participating in everyday conversations. It is the second of the six-semester sequence in the Spanish Language Sequence and is designed for students who a) have successfully completed [SPA101H1](#), b) have placed into the course via the Spanish placement exam offered by the unit, or c) have studied Spanish for two years in high school. By the end of the semester, students can expect to have reached the Intermediate Low level of the ACTFL scale.

Prerequisite: [SPA101H1](#) or Spanish placement test

Exclusion: [SPA100Y1](#), [SPA100Y5](#), [SPA120Y1](#), [SPA201H1](#), [SPA202H1](#), [SPA205H1](#), [SPA219Y1](#), [SPA219H5](#), [SPA220Y1](#), [SPA220Y5](#), [SPA221H1](#), [SPA301H1](#), [SPA302H1](#), [SPA305H1](#), [SPA319H5](#), [SPA320Y1](#), [SPA320Y5](#), [SPA420H1](#), [LGGA90Y3](#)

Breadth Requirements: Creative and Cultural Representations (1)

SPA195H1 - Barcelona

Hours: 24L

A deep dive into the modern experience of one of the world's most compelling cities, this course considers Barcelona from a multidisciplinary perspective that includes study of its architecture, foodways, politics and response to mass tourism. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SPA196H1 - Class and Work in the Americas

Hours: 24L

This course examines economic and social inequalities in the contemporary Americas. We look at the ways in which class divisions are represented in academic studies, literature, film, and television. From Mexican *maquiladoras* to indigenous reservations, we consider the global poor and how recent changes in the character of work (automation, outsourcing, free trade zones) have had an impact on class divisions, especially for younger members of society. Can a renewed understanding of class and work help us to negotiate power, privilege, and inequality in this century? Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SPA197H1 - Cervantes and Imperial Spain

Hours: 24L

During the lifetime of Miguel de Cervantes, the Spanish monarchy governed an empire that extended across the globe, from its traditional lands in Europe to colonies in the Philippines and the Americas. We will examine the advantages and cost of imperial rule through reading a selection of Cervantes's works. Discussions will centre on such questions as the social impact of imperial wealth, the disruptive role of soldiers in civil society, contact with non-European cultures and the sub-cultures of Spanish society. Students will be introduced to the University of Toronto's outstanding resources for studying the literatures and cultures of early modern Europe. Readings will include some of the Exemplary Stories and selected episodes of *Don Quixote*. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SPA198H1 - A Brief History of Love in the Western World

Hours: 24L

This course introduces students to the ways in which the foremost thinkers in the history of the Western world (Plato, Ovid, St. Augustine, Ficino, Ebreo) conceived the idea of love; how did the notions of sexuality and gender play into that idea, and how did these notions carry on – or not – into our present understanding of love, sexuality

and gender. While the background readings pertain to the general Western cultural heritage, the literary texts through which we will observe particular applications of the theories of love were produced by some of the outstanding 16th and 17th century Spanish authors (for ex. Rodríguez de Montalvo; Jorge de Montemayor; Miguel de Cervantes; Tirso de Molina, María de Zayas, Sor Juana Inés de la Cruz). All the readings will be in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SPA199H1 - More than Nachos and Tequila: Mexican History and Culture

Hours: 24L

This course aims at studying the rich history of Mexico from an interdisciplinary perspective. We will cover a wide range of issues, such as identity, modernity race, immigration, gender, sexuality, globalization, and iconic figures. The issue of identity as construed from the inside, but also from the outside and particularly from the English-speaking world (i.e. current US presidential views on the wall), will be widely examined. Course materials will range from chronicles of conquest to modern reflections and representations by historians, philosophers, filmmakers, musicians, writers and artist, among others. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

SPA201H1 - Spanish for Intermediate Speakers I

Previous Course Number: SPA220Y1
Hours: 48L

The course develops students' ability to narrate and describe in the present frame and exchange basic descriptions and comparisons about authentic materials from the Spanish-speaking world. Students strengthen strategies to handle different communicative tasks in straightforward social situations. It is the third of a six-semester sequence in the Spanish Language Sequence designed for students who a) have successfully completed SPA102H, b) have placed into the course via the Spanish placement exam offered by our unit, or c) have studied Spanish for three years in high school. By the end of the semester, students can expect to have reached the Intermediate Mid level of the ACTFL scale.

Prerequisite: SPA102H1, SPA100Y1, or Spanish placement test

Exclusion: SPA120Y1, SPA202H1, SPA205H1, SPA219Y1, SPA219H5, SPA220Y1, SPA220Y5, SPA301H1, SPA302H1, SPA305H1, SPA319H5, SPA320Y1, SPA320Y5

Breadth Requirements: Creative and Cultural Representations (1)

SPA202H1 - Spanish for Intermediate Speakers II

Previous Course Number: SPA220Y1
Hours: 48L

The course further develops students' ability to narrate and describe across various time frames, follow the main plot of stories (novels or films), and exchange basic descriptions, comparisons, and interpretations about authentic materials from the Spanish-speaking world. This course is the fourth of a six-semester sequence in the Spanish Language Sequence designed for students who a) have successfully completed SPA201H1, or b) have placed into the course via the Spanish placement exam offered by our unit. By the end of the semester, students can expect to have reached the Intermediate High level of the ACTFL scale. Taught in Spanish.

Prerequisite: SPA201H1 or Spanish placement test
Exclusion: SPA205H1, SPA219Y1, SPA219H5, SPA220Y1, SPA220Y5, SPA301H1, SPA302H1, SPA305H1, SPA319H5, SPA320Y1, SPA320Y5

Breadth Requirements: Creative and Cultural Representations (1)

SPA205H1 - Spanish for Heritage Speakers I

Previous Course Number: SPA219Y1
Hours: 36L

For native (heritage) speakers who have had exposure to spoken Spanish in an informal context (i.e., living in a Spanish-speaking country; or growing in a Spanish-speaking family), but little to no exposure to written Spanish. The students' ability to speak and understand Spanish may range from basic to relatively high fluency, but they experience difficulties writing and reading in Spanish. The course reviews English/Spanish spelling differences; written and spoken registers of Spanish, cognates and false cognates, and basic aspects of the grammatical system. (Introductory)

Prerequisite: Basic to relatively high (almost native) ability to speak and understand Spanish, with limited to no

formal education in Spanish, or Spanish placement test.

Exclusion: SPA100Y1, SPA100Y5, SPA120Y1, SPA201H1, SPA202H1, SPA219Y1, SPA219H5, SPA220Y1, SPA220Y5, SPA301H1, SPA302H1, SPA305H1, SPA319H5, SPA320Y1, SPA320Y5, LGGA90Y3, or formal education in a Spanish-speaking country

Breadth Requirements: Creative and Cultural Representations (1)

SPA221H1 - Spanish Pronunciation

Hours: 24L

A practical introduction to articulatory phonetics, Spanish sound patterns, phonetics, phonology; the basic concepts of phonetic description and transcription; the study of Spanish vowel and consonant systems, stress and intonation.

Prerequisite: SPA201H1/ SPA220Y1

Exclusion: SPA205H1, SPA219Y1, SPA219H5, SPA305H1, SPA319H5, native or heritage speakers of Spanish.

Breadth Requirements: Thought, Belief and Behaviour (2)

SPA254H1 - Cervantes and Modern Fiction

Hours: 24L

Critical reading of Don Quixote as a canonical text for the novel and other narrative forms, including historical metafiction, the short story, and fictional autobiography. Comparative discussion of Quixotic fictions by modern authors, such as Machado de Assis, Borges, Nabokov, García Márquez, Junot Díaz. Lectures and readings in English.

Breadth Requirements: Creative and Cultural Representations (1)

SPA255Y0 - Introduction to the Hispanic World

Hours: 48L

A survey of Hispanic Culture, with attention to central issues in history, politics, and popular traditions. Course will be taught in English.

Breadth Requirements: Creative and Cultural Representations (1)

SPA258H1 - Introduction to Hispanic Literary Studies

Hours: 36L

Introduction to university literary studies in Spanish and information literacy. Representative selection of Spanish and Spanish American prose, poetry, and drama, with focus on critical terminology and methods of literary analysis. Required for a program degree. Taught in Spanish.

Prerequisite: SPA201H1/ SPA220Y1

Corequisite: SPA202H1/ SPA205H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA259H1 - Introduction to Hispanic Cultural Studies

Hours: 24L

Forms of cultural expression in Spain, Latin America and Spanish-speaking North America, with study of representative media, including literature, journalism, film, visual art, and the urban environment. Introduction to methods of cultural analysis. (Offered in alternate years).

Prerequisite: SPA201H1/ SPA220Y1

Corequisite: SPA202H1/ SPA205H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA275H1 - 21st Century Latin American Cinema

Previous Course Number: SPA375H1

Hours: 12L/12T

This online course examines the social, political, and cultural contexts of recent Latin American Hispanic cinema. Topics include race and indigeneity; poverty, precarity, and inequality; gender and sexuality; and memory and trauma. The representation of these themes in Latin American cinema of the 21st century has contributed to an increase in its transnational and cosmopolitan reception. Lectures in English. Students choose tutorials in Spanish or English.

Exclusion: SPA375H1, SPA275H5

Breadth Requirements: Creative and Cultural Representations (1)

SPA299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

SPA301H1 - Spanish for Advanced Speakers I

Previous Course Number: SPA320Y1
Hours: 48L

The course develops students' ability to interact in culturally appropriate ways with native speakers of Spanish, negotiate situations that require problem solving, exchange detailed descriptions and comparisons about authentic materials from the Spanish-speaking world. The course is the fifth course of the six-semester sequence in the Spanish Language Sequence. It is designed for students who a) have successfully completed SPA202H1, or b) have placed into the course via the Spanish placement exam offered by our unit. By the end of the semester, students can expect to have reached the Advanced Low level of the ACTFL scale. Taught in Spanish.

Prerequisite: SPA202H1/ SPA220Y1, or Spanish placement test
Exclusion: SPA205H1, SPA219Y1, SPA219H5, SPA302H1, SPA305H1, SPA319H5, SPA320Y1, SPA320Y5
Breadth Requirements: Creative and Cultural Representations (1)

SPA302H1 - Spanish for Advanced Speakers II

Previous Course Number: SPA320Y1
Hours: 48L

This course expands students' ability to interact in culturally appropriate ways with native Spanish speakers. Students will participate in informal and some formal exchanges on a variety of topics, contextualize and analyze more complex stories (novels) and films, and exchange detailed descriptions and interpretations about authentic materials. This is the final course of the six-semester Spanish Language Sequence. It is designed for students who a) have successfully completed SPA301H1, or b) have placed into the course via the Spanish placement exam offered by our unit. By the end of the

semester, students will reach the Advanced Mid level of the ACTFL scale. Taught in Spanish.

Prerequisite: SPA301H1 or Spanish placement test
Exclusion: SPA205H1, SPA219Y1, SPA219H5, SPA305H1, SPA319H5, SPA320Y1, SPA320Y5
Breadth Requirements: Creative and Cultural Representations (1)

SPA305H1 - Spanish for Heritage Speakers II

Previous Course Number: SPA219Y1
Hours: 36L

For native (heritage) speakers who have had exposure to spoken Spanish in an informal context (i.e., living in a Spanish-speaking country; or growing in a Spanish-speaking family), and have been introduced to Spanish writing and basic grammar. Students will develop their vocabulary, deepen their understanding of the Spanish grammar, and become familiar with the use of Spanish in a range of contexts, including academic levels of speaking and writing. Taught in Spanish.

Prerequisite: SPA205H1 or Spanish placement test
Exclusion: SPA100Y1, SPA100Y5, SPA101H1, SPA102H1, SPA120Y1, SPA201H1, SPA202H1, SPA219Y1, SPA219H5, SPA220Y1, SPA220Y5, SPA301H1, SPA302H1, SPA319H5, SPA320Y1, SPA320Y5, LGA90Y3, or formal education in a Spanish-speaking country.
Breadth Requirements: Creative and Cultural Representations (1)

SPA322H1 - Introduction to Hispanic Linguistics

Hours: 36L

The basic concepts and analytic tools of linguistics applied to the study of Spanish, with a focus on the Spanish phonological, morphological, and syntactic systems. Theoretical discussion and practical exercises in analytic techniques. Taught in Spanish.

Prerequisite: SPA202H1/ SPA205H1/ SPA120Y1/ SPA220Y1/ SPA219Y1 or Spanish placement test
Breadth Requirements: Thought, Belief and Behaviour (2)

SPA323H1 - Business Spanish

Previous Course Number: SPA323Y1
Hours: 24L/48P

Practical uses of spoken and written Spanish for business contexts, with an emphasis on culturally appropriate ways of communication in a Spanish-language work environment. This course builds on grammar and vocabulary knowledge already acquired at the intermediate level. As a part of the course, students will participate in an internship with Spanish-speaking businesses and institutions in the Toronto area. The placements are designed to deepen linguistic, cultural, and analytical skills acquired in the classroom in work-related environments, promote intercultural competency, and foster links to the community. Taught in Spanish.

Prerequisite: SPA120Y1/ SPA202H1/ SPA205H1/ SPA220Y1 or Spanish placement test.

Corequisite: SPA301H1/ SPA305H1

Exclusion: SPA323Y1

Breadth Requirements: Creative and Cultural Representations (1)

Course Experience: Partnership-Based Experience

SPA324H1 - Spanish Bilingualism

Hours: 24L

Spanish bilingualism from three different perspectives: linguistic, sociolinguistic, psycholinguistic. Analysis of typical language contact phenomena with materials from Spanish. Case studies of Spanish in contact and discussion of the psychological consequences of bilingualism. Introduction to survey methods in sociolinguistics and psycholinguistics, and basic techniques for conducting language interviews. Taught in Spanish. (Offered in alternate years)

Prerequisite: SPA202H1/ SPA205H1/ SPA120Y1/ SPA220Y1/ SPA219Y1 or Spanish placement test

Recommended Preparation: SPA221H1/ SPA322H1

Breadth Requirements: Thought, Belief and Behaviour (2)

SPA326H1 - Latin American Varieties of Spanish Through the Media

Hours: 36L

This course aims at exposing students to different varieties of Latin American Spanish. Lexical, morpho-syntactic and phonological variation will be discussed and theoretical descriptions will be illustrated by using samples from contemporary cinema and television. Taught in Spanish. (Offered in alternate years)

Prerequisite: SPA202H1/ SPA205H1/ SPA120Y1/ SPA220Y1/ SPA219Y1 or Spanish placement test

Recommended Preparation: SPA221H1 / SPA302H1 / SPA320Y1 / SPA322H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA327H1 - Catalan

Previous Course Number: SPA327Y

Hours: 24L

Study of Catalan language through an overview of grammatical structures and exercises in proficiency skills, complemented by readings in Catalan history and society to attain interdisciplinary cultural literacy. Taught in English and Catalan. (Offered every three years)

Prerequisite: SPA202H1/ SPA205H1/ SPA120Y1/ SPA220Y1/ SPA219Y1/ PRT202H1/ PRT205H1 or any other 0.5 credit at 200+ level in ITA, FRE, FSL; or placement test.

Breadth Requirements: Creative and Cultural Representations (1)

SPA341H1 - Modernist Movements in Spain

Hours: 24L

Literary and artistic movements in Spain from 1890 to 1940, with special attention to the convergence and mutual mediation of politics and art. Materials to be studied include novels, poetry, the urban environment, graphic art, literary journals and manifestos, and some early Hispanic film. Taught in Spanish. (Offered every three years)

Prerequisite: SPA202H1/ SPA205H1/ SPA120Y1/ SPA220Y1/ SPA219Y1 or Spanish placement test

Recommended Preparation: SPA258H1

Breadth Requirements: Society and its Institutions (3)

SPA344H1 - The Spanish Sensorium

Hours: 20L/4P

Pushing back against the primacy of vision, this course approaches modern Spain from the perspective of our other senses. How does the Spanish state and its concomitant nations smell, feel, taste and sound? What do these other forms of knowing tell us about cultural phenomena? In this course we will consider both primary and secondary source texts; that is, we will be touching, smelling, tasting and listening as well as analyzing the textual manifestations of sensory experience. Taught in Spanish. Offered in alternate years.

Prerequisite: [SPA202H1](#)/ [SPA205H1](#)/ [SPA219Y1](#)/ [SPA220Y1](#), [SPA258H1](#)/ [SPA259H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SPA345H1 - Spanish Cinema

Hours: 24L

Analysis of the development of Spanish Cinema within its social and political contexts. Directors studied include Buñuel, Bardem, Erice, Saura, Almodóvar and Bigas Luna. Taught in Spanish. (Offered every three years).

Prerequisite: [SPA202H1](#)/ [SPA205H1](#)/ [SPA120Y1](#)/ [SPA220Y1](#)/ [SPA219Y1](#) or Spanish placement test.

Recommended Preparation: [SPA258H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SPA348H1 - Galdos and the Realist Novel

Hours: 24L

Representative fiction by Galdós, the principal Spanish novelist of the nineteenth century. Detailed study of such texts as *Marianela*, *Doña Perfecta*, *La desheredada*, *Realidad*, *La incógnita*, in relation to modernity of realist fiction and contemporary issues in politics, social relations and individual psychology. Taught in Spanish. (Offered every three years)

Prerequisite: [SPA202H1](#)/ [SPA205H1](#)/ [SPA120Y1](#)/ [SPA220Y1](#)/ [SPA219Y1](#) or Spanish placement test

Recommended Preparation: [SPA258H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SPA350H1 - Medieval Spain Portrayed Through Visual Arts

Previous Course Number: SPA450H1

Hours: 24S

Through the lens of visual arts, this course will examine the evolution of complex medieval societies in the Middle Ages. We will analyse films, painting, drawing, sculpture, ceramic, images, literature, and architecture as a primary source to explain and study the past. This investigation of visual art allows us an in-depth look at medieval daily life, with a specific focus on family, violence, marriage, childhood, crimes, punishments, markets, towns, and village. Taught in Spanish. (Offered every three years)

Prerequisite: [SPA202H1](#)/ [SPA205H1](#)/ [SPA120Y1](#)/ [SPA220Y1](#)/ [SPA219Y1](#) or Spanish placement test, [SPA258H1](#)

Corequisite: [SPA302H1](#)/ [SPA305H1](#)

Exclusion: [SPA450H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SPA352H1 - Court and Country in Early Modern Spain

Hours: 24L

Representative texts (such as ballads, popular and courtly lyric; chivalry, pastoral and picaresque prose, theater) from the early modern period, studied in relation to the history and society of imperial Spain. Discussion of literary texts as codes of social conduct; issues of urbanization, court culture, social order and disorder, and cultural discourses of identity and difference. Reading from modern authors (Sender, Borges) to illustrate the continuity of court and country in the Hispanic tradition. Taught in Spanish. (Offered every three years)

Prerequisite: [SPA202H1](#) / [SPA205H1](#) / [SPA120Y1](#) / [SPA220Y1](#) / [SPA219Y1](#)/SPA258 or Spanish placement test, [SPA258H1](#).

Corequisite: [SPA302H1](#) / [SPA305H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SPA354H1 - Parody and Comedy in Early Modern Spanish Literature

Hours: 24L

Parody and comedy as interrelated literary forms that create humour through conventional character types, the play of language, self-conscious imitation, and the relationship of parodic works to canonical intertexts. Considerations of humour as a response to social anxieties in early modern Spain. Analysis of poems, plays and short prose narratives by representative authors; Garcilaso, Góngora, Quevedo, Tirso de Molina, Cervantes. Taught in Spanish. (Offered every three years)

Prerequisite: [SPA202H1](#) / [SPA205H1](#) / [SPA120Y1](#) / [SPA220Y1](#) / [SPA219Y1](#) or Spanish placement test, [SPA258H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

SPA368H1 - Spanish and the Empire: Migration in Language and Literature

Hours: 24L

This interdisciplinary approach considers broad cultural consequences resulting from the contact of Spanish with the American indigenous languages. Current cultural and linguistic theories on language contact are used to analyze sixteenth to eighteenth-century Spanish texts, and invite reflection on language, power, and the emergence of new cultural expressions. Taught in Spanish. (Offered every three years)

Prerequisite: SPA202H1 / SPA205H1 / SPA120Y1 / SPA220Y1 / SPA219Y1 or Spanish placement test
Recommended Preparation: SPA258H1 / SPA301H1 / SPA305H1
Breadth Requirements: Creative and Cultural Representations (1)

SPA377H1 - Central American Literature: Narratives of War

Previous Course Number: SPA389H1
Hours: 24L

The 70s and 80s represent a period of armed struggle, civil war, and revolution in most of Central America. Through the study of specific novels, short stories, and films, this course analyzes the representation of violence, and the political repression generated by military conflicts. Taught in Spanish. (Offered every three years)

Prerequisite: SPA202H1 / SPA205H1 / SPA120Y1 / SPA220Y1 / SPA219Y1 or Spanish placement test.
Exclusion: SPA389H1
Recommended Preparation: SPA258H1
Breadth Requirements: Creative and Cultural Representations (1)

SPA378H1 - Central America Postwar Narrative

Previous Course Number: SPA488H1
Hours: 24L

The end of civil and military conflicts in the last decade of the 20th century reshapes the political landscape of Central America. Through selected readings of novels and short stories from representative writers, issues of immigration, displacement, and globalization are discussed to understand these changes in the region. Taught in Spanish. (Offered every three years)

Prerequisite: 0.5 SPA credit at the 300-level
Exclusion: SPA488H1
Recommended Preparation: SPA258H1 / SPA259H1
Breadth Requirements: Creative and Cultural Representations (1)

SPA381H1 - Nation, Identity and Modernity in Spanish-America

Hours: 24L

Analysis of poetry, short stories, essays, and graphic art in the context of nation-building and the question of identity during the nineteenth century. Taught in Spanish. (Offered every three years)

Prerequisite: SPA202H1 / SPA205H1 / SPA120Y1 / SPA220Y1 / SPA219Y1 or Spanish placement test.
Recommended Preparation: SPA258H1
Breadth Requirements: Creative and Cultural Representations (1)

SPA382H1 - Spanish American Women in Art, Film, and Literature

Hours: 24L

Study of different creative expressions by women in Spanish America from the colonial period to the present; analysis of selected works of visual art, film, essays, poetry, and fiction. Taught in Spanish. (Offered every three years)

Prerequisite: SPA202H1 / SPA205H1 / SPA120Y1 / SPA220Y1 / SPA219Y1 or Spanish placement test.
Recommended Preparation: SPA258H1
Breadth Requirements: Creative and Cultural Representations (1)

SPA383H1 - Disability and Embodiment in Spanish American Cultures

Hours: 24L

This course approaches literary, visual, and multi-media texts of twentieth-century and contemporary Spanish America, focusing on the body as site of multiple differences, lived experience, exploitation, and creative expression. We will consider the roles of disability through cultural production and activism, particularly in the Mexican context, the histories that have shaped ongoing inequalities, and relationships between disability, gender, and race in these histories. Taught in Spanish. (Offered alternate years)

Prerequisite: SPA202H1 / SPA205H1 / SPA120Y1 / SPA220Y1 / SPA219Y1 or Spanish placement test.

Recommended Preparation: SPA258H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA384H1 - Avant-Garde Movements in Spanish America

Hours: 24L

Study of representative works of major artistic and literary movements in 20th and 21st century Spanish America: avant-garde poetry, theatre of the absurd, surrealist art, neo-realism, postmodernism. Taught in Spanish. (Offered every three years)

Prerequisite: SPA202H1 / SPA205H1 / SPA120Y1 / SPA220Y1 / SPA219Y1 or Spanish placement test.

Recommended Preparation: SPA258H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA385H1 - Literature and Social Change in Spanish America

Hours: 24L

Detailed study of key moments and texts in Spanish American culture from the nineteenth and twentieth centuries, focusing on such topics as the creation of new nations, indigenismo, Caribbean anti-slavery literature, and the Mexican and Cuban Revolutions. Taught in Spanish. (Offered every three years)

Prerequisite: SPA202H1 / SPA205H1 / SPA120Y1 / SPA220Y1 / SPA219Y1 or Spanish placement test.

Exclusion: SPA487H1

Recommended Preparation: SPA258H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA386H1 - Literary Landscapes of the Mexican Revolution

Hours: 24L

Examines cultural production, including short stories, novels, films and paintings surrounding the socio-political transformations of the revolutionary period. Readings and discussion emphasize general concepts of the landscape, as a visual and spatial mode of interpreting relationships between human subjects, and between these subjects and the territory they occupy. Taught in Spanish. (Offered every three years)

Prerequisite: SPA202H1 / SPA205H1 / SPA120Y1 / SPA220Y1 / SPA219Y1 or Spanish placement test.

Recommended Preparation: SPA258H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA387H1 - Latin American Performative Expression

Hours: 24L

Considers continuities and divisions between word and action, art and politics, in short works of fiction, theatre, film and performance projects. Includes work from twentieth-century and contemporary Mexico as well as Latin American cultural production from Canada and the United States. Taught in Spanish with occasional English. (Offered every three years)

Prerequisite: SPA202H1 / SPA205H1 / SPA120Y1 / SPA220Y1 / SPA219Y1 or Spanish placement test.

Exclusion: SPA467H1 (Topics: Latin American Performative Practices), offered in Fall 2009, Winter 2018

Recommended Preparation: SPA258H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

SPA398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

SPA399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

SPA420H1 - Advanced Spanish Grammar

Hours: 36L

Linguistic analysis with the objective of improving students' command of Spanish grammar. Advanced review of traditional grammatical topics, including the verbal and pronominal systems, Spanish copulas, and embedded clauses. This course assumes familiarity with the grammatical terminology introduced in [SPA301H1](#) and [SPA302H1](#) (formerly [SPA320Y1](#)). Taught in Spanish.

Prerequisite: [SPA302H1](#) / [SPA305H1](#) / [SPA219Y1](#) / [SPA320Y1](#), or Spanish placement test. Native speakers of Spanish who completed high school in a Spanish-speaking country begin their Spanish studies with this course.

Breadth Requirements: Creative and Cultural Representations (1)

SPA421H1 - The Structure of Spanish

Hours: 36L

Study of Spanish morphology and syntax: syntactic categories in Spanish, the structure and interpretation of simple and complex sentences. (Offered in alternate years)

Prerequisite: [SPA420H1](#), or permission of department
Recommended Preparation: [SPA322H1](#)
Breadth Requirements: Thought, Belief and Behaviour (2)

SPA422H1 - Sociolinguistics of Spanish

Hours: 24L

Study of linguistic variation across the Spanish-speaking world; central issues in phonological, morphological, and syntactic variation, analyzed from a geographical as well as from a social point of view. (Offered in alternate years)

Prerequisite: [SPA322H1](#) or permission of the department
Recommended Preparation: [SPA420H1](#)
Breadth Requirements: Thought, Belief and Behaviour (2)

SPA423H1 - Spanish Phonology

Hours: 24L/12T

Theoretical and experimental approaches to Spanish phonology. Topics include: Spanish phonemic inventory, sound patterns, suprasegmentals (stress and intonation), synchronic and diachronic variation. Methods of data collection and analysis in the discipline, with practical applications. (Offered in alternate years)

Prerequisite: [SPA322H1](#) or permission of the Department

Recommended Preparation: [SPA420H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

SPA424H1 - Experimental Approaches to Hispanic and Lusophone Linguistics

Hours: 12P/24S

This course introduces students to theoretically grounded experimental approaches in the field of linguistics, with a particular focus on Hispanic and Lusophone linguistics. Students will receive training in the use of different experimental and corpus analysis techniques and will discuss paradigmatic examples of research papers in the areas of phonetics-phonology and morpho-syntax. Throughout the course, they will conduct their own research project under the supervision of a specialist in the field. The course can be taught in English, Spanish and Portuguese.

Prerequisite: [SPA322H1](#) / [PRT322H1](#)

Recommended Preparation: 300-level SPA/PRT linguistic courses

Breadth Requirements: Thought, Belief and Behaviour (2)

SPA425H1 - History of the Spanish Language

Hours: 24L

Have you ever doubted where Spanish came from? Or how did it become the language we know today? This course presents a detailed study of the external and internal history of the Spanish language in which this evolution occurred. Special attention will be paid to the linguistic progress of the language from its Latin roots to Modern Spanish and to the socio-cultural, historical, political and literary influence that have affected its linguistic evolution. The main features of the Spanish language evolution will be put in practice through a close reading of representative Medieval, Renaissance and dialectal texts. Taught in Spanish. (Offered every three years)

Prerequisite: [SPA302H1](#) / [SPA305H1](#) / [SPA320Y1](#) / [SPA219Y1](#) or Spanish placement test.

Breadth Requirements: Creative and Cultural Representations (1)

SPA427H1 - Spanish Language Teaching as Reflective Practice

Hours: 24L/6P

Practical introduction to planning, management, and delivery of academic projects related to teaching of the Spanish language. This course concentrates on core communication skills that students will adapt and apply to various contexts and projects. Through experiential activities, students will be able to deepen their understanding on how we negotiate institutional, societal, and global challenges in multilingual educational contexts.

Prerequisite: SPA302H1/ SPA305H1/ SPA320Y1

Corequisite: SPA420H1

Breadth Requirements: Thought, Belief and Behaviour (2)

Course Experience: University-Based Experience

SPA435H1 - Fictions of Contemporary Spain

Hours: 24L

Study of major currents in narrative fiction during the last twenty years, a period of return to democratic government, the relaxing of censorship and the opening up of Spanish culture. Analysis of works from several generations of male and female writers. Taught in Spanish. (Offered every three years)

Prerequisite: 0.5 credit at the 300-level in SPA

Recommended Preparation: SPA258H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA439H1 - Topics in Spanish Studies

Hours: 24S

A course on specific topics in Spanish studies, designed for advanced students. Course content and instructor are established on a yearly basis.

Prerequisite: SPA202H1 / SPA205H1 / SPA220Y1 / SPA219Y1 or Spanish Placement test.

Recommended Preparation: SPA258H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA454H1 - Cervantes: Don Quixote

Hours: 36L

Detailed study of Don Quixote as a foundational text in the European literary tradition, with attention to the conventions, genres, and literary techniques that inform the text. Taught in Spanish. (Offered in alternate years)

Prerequisite: SPA302H1 / SPA305H1 / SPA219Y1 / SPA320Y1 or Spanish placement test, SPA258H1.

Exclusion: SPA350Y1

Recommended Preparation: SPA352H1, 0.5 credit at 300-level in SPA courses.

Breadth Requirements: Creative and Cultural Representations (1)

SPA467H1 - Topics in Spanish-American Literature and Culture

Hours: 24L

A course on a specific topic in Spanish American culture, designed for advanced students. Course content and instructor are established on a yearly basis.

Prerequisite: 0.5 credit at the 300-level in SPA courses.

Recommended Preparation: SPA258H1 / SPA259H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA475H1 - 21st Century Latin American Culture

Hours: 24L

Contemporary Latin American authors and visual artists will be studied through their work, online visibility, and also the institutional and discursive structures that facilitate and shape their production. In-class remote online discussions with some of the artists. Taught in Spanish. (Offered every three years)

Prerequisite: 0.5 credit at the 300-level in SPA courses.

Recommended Preparation: SPA258H1 / SPA259H1

SPA480H1 - Icons and Iconography in Latin American Culture

Hours: 24L

Production, circulation and meaning of icons through Latin American literary and cultural contexts. Readings are selected from the period of independence to the present,

and focus on the transformative ideological charge of cultural objects across geographic space and history. Focuses on political and socio-economic tensions between popular and elite spheres of cultural production, and on the risks and limits of iconographic representation. Taught in Spanish. (Offered every three years)

Prerequisite: 0.5 credit at the 300-level in SPA courses.

Recommended Preparation: SPA258H1 / SPA259H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA482H1 - 20th-Century Spanish American Narrative

Hours: 24L

Detailed study of the major movements in Spanish-American narrative, including magic realism, fantastic literature, women's writing, and testimonial literature, through analysis of representative novels and short stories. Taught in Spanish. (Offered every three years)

Prerequisite: 0.5 credit at the 300-level in SPA courses.

Recommended Preparation: SPA258H1 / SPA259H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA486H1 - Contemporary Caribbean Literatures and Identities

Hours: 24L

Literature studied as a socio-political space for the articulation of new concepts of cultural identity; examination of cultural change and aesthetic innovation in selected poetic, dramatic, and narrative texts from different national traditions (Cuba, the Dominican Republic, Puerto Rico). Taught in Spanish. (Offered every three years)

Prerequisite: 0.5 credit at the 300-level in SPA courses.

Recommended Preparation: SPA258H1 / SPA259H1

Breadth Requirements: Creative and Cultural Representations (1)

SPA489H1 - Latin American Transculturations

Hours: 36L

This course integrates a series of contemporary debates in Latin American cultural studies with analysis of its transdisciplinary history and global permutations. Key

topics of investigation within these debates may include indigeneity; coloniality, transculturation, and subalternity; empire, nation, and globalism; revolution, state discourse, and the popular; gender and sexuality; and the production of race. Taught in Spanish. (Offered in alternate years)

Prerequisite: SPA302H1 / SPA305H1 / SPA219Y1 / SPA320Y1 or Spanish placement test, SPA258H1

Recommended Preparation: 0.5 credit at the 300-level Spanish Peninsular literature courses / 300-level Spanish American literature courses.

Breadth Requirements: Creative and Cultural Representations (1)

SPA490H1 - Independent Studies in Spanish

A unique opportunity for students interested in pursuing an in-depth study on a specific topic related to Spanish Studies, but beyond the scope of regular course offerings. The student, aided and advised by a faculty member in the Spanish program acting as supervisor, will produce a substantive written report on original and independent investigation of an appropriate topic. Students interested must contact the Associate Chair of Undergraduate Studies to learn about the process and request an application form. More details available in our website: <https://www.spanport.utoronto.ca/>. Deadline for submission of application form is five business days before the first day of classes of the session in which student wishes to enroll in the course. Not eligible for CR/NCR.

Prerequisite: 0.5 credit at the 300+ level in SPA courses, and written approval of the Associate Chair of Undergraduate Studies.

Course Experience: University-Based Experience

SPA491H1 - Independent Studies in Spanish

A unique opportunity for students interested in pursuing an in-depth study on a specific topic related to Spanish Studies, but beyond the scope of regular course offerings. The student, aided and advised by a faculty member in the Spanish program acting as supervisor, will produce a substantive written report on original and independent investigation of an appropriate topic. Students interested must contact the Associate Chair of Undergraduate Studies to learn about the process and request an application form. More details available in our website: <https://www.spanport.utoronto.ca/>. Deadline for submission of application form is five business days before the first day of classes of the session in which student wishes to enroll in the course. Not eligible for CR/NCR option.

Prerequisite: 0.5 credit at the 300-level in SPA courses, and written approval of the Associate Chair of Undergraduate Studies.

Course Experience: University-Based Experience

Statistical Sciences

Faculty List

Professors Emeriti

D.F. Andrews, MSc, PhD
 S. Broverman, BSc, MSc, PhD, ASA
 A. Feuerverger, BSc, PhD
 D.A.S. Fraser, BA, PhD, FRSC
 I. Guttman, MA, PhD
 P. McDunnough, MSc, PhD
 R. Neal, BSc, PhD
 M.S. Srivastava, MSc, PhD
 A.M. Vukov, MA, ASA

Professor and Chair of the Department

M.J. Evans, MA, PhD

Associate Professor and Associate Chair, Graduate Studies

S. Volgushev, PhD

Associate Professor, Teaching Stream and Associate Chair, Undergraduate Studies - Actuarial Science

V. Zhang, BSc, MSc, FSA, ACIA, Actuarial
Science

Professor, Teaching Stream and Associate Chair, Undergraduate Studies - Statistics

N. Taback, BSc, MSc, PhD

University Professor

N.M. Reid, MSc, PhD, FRSC, OC

Professors

A. Badescu, BSc, MSc, PhD
 R. Craiu, BSc, PhD
 S. Jaimungal, BSc, MSc, PhD
 K. Knight, MSc, PhD
 X.S. Lin, MSc, PhD, ASA
 J.S. Rosenthal, MA, PhD
 J. Stafford, MSc, PhD
 L. Strug, BA, BSc, Sc M, PhD
 L. Sun, BSc, PhD
 B. Virag, PhD (UTSC)
 Z. Zhou, BSc, PhD

Associate Professors

D. Brenner, MSc, PhD
 L.J. Brunner, MA, PhD (UTM)
 D. Duvenaud, BSc, MSc, PhD
 M. Franklin, BSc, MSc, PhD
 D. Kong, PhD (UTM)
 D. Roy, BSc, MSc, PhD (UTSC)

Q. Sun, PhD

P. Zwiernik, MSc, PhD

Assistant Professors

M. Alexander, BSc, MA, MSR, PhD
 R. Alexander, BE, PhD
 B. Babic, BA, JD, MS, PhD
 M. Bing, BS, MFE, MSc, PhD
 C. Blier-Wong, BSc, MSc, PhD
 F. Chevalier, BSc, PhD
 G. Eadie, BSc, MSc, PhD
 M. Erdogdu, BSc, MSc, PhD
 J. Gronsbell, BA, PhD
 V. Leos Barajas, BSc, PhD
 C. Maddison, MSc, PhD
 W. Mou, BSc, B. Econ., PhD
 J. Y. Park, BA, PhD
 S. Pesenti, BSc, MSc, PhD
 X. Shi, BSc, MSc, PhD
 J. Speagle, BA, MA, PhD
 E. Tuzhilina, MSc, PhD
 L. Wang, BSc, PhD
 L. Wong, BSc, MSc, PhD

Professor, Teaching Stream

A. Gibbs, B Math, BEd, MSc, PhD

Associate Professor, Teaching Stream

B. White, BSc, M Math, PhD, Statistics -
Biostatistics

Assistant Professors, Teaching Stream

S. Caetano, BSc, MSc, PhD
 K. Daignault, BSc, MSc
 G. Dong, BMath, MMath, PhD
 K. Huynh Wong, BSc, MSc
 M. Moon, BSc, MSc
 N. Moon, BSc, MA, PhD
 S. Schwartz, BA, BS, MSc, PhD
 J. Yeung, B Math, MSc

Introduction

Statistical Science is the science of learning from data. Statistical science plays a large role in data science, which broadly encompasses computational and statistical aspects of managing and learning from large and complex datasets. Statistical theory and methodology have applications in almost all areas of science, social science, public health, medicine, engineering, finance, technology, business, government and industry. Statisticians and data scientists are involved in solving problems as diverse as understanding the health risk of climate change, predicting the path of forest fires, understanding the role of genetics in human health, and creating a better search engine. New ways of collecting, organizing, visualizing, and analyzing data are increasingly driving progress in all fields and have created demand for people with data expertise.

The Department of Statistical Sciences offers specialist, major, and minor programs in Statistics and a specialist program in Data Science and a specialist and a major program in Actuarial Science (please refer to the [Actuarial Science section](#) of the academic calendar for more information on Actuarial Science programs). All Statistics programs offer training in statistical methods, theory, computation, and communication, as well as an understanding of the role of statistical science to solve problems in a variety of contexts. The specialist program in Statistical Science: Theory and Methods emphasizes probability and statistical theory as underlying mathematical frameworks for data analysis. The specialist program in Statistical Science: Methods and Practice has greater emphasis on collaborative statistical practice. Students in this program combine their study in statistics with a focus in a discipline that relies on statistical methods. The specialist program in Data Science is offered jointly with the Department of Computer Science. Students in this program acquire expertise in statistical reasoning and methods, in the design and analysis of algorithms and data structures for handling big data, in best practices for software design, and in machine learning. The major program in Statistics offers the most flexibility in the choice of courses. This program gives students a broad understanding of the methods and computational and communication skills appropriate for effective statistical problem solving. The minor program in Statistics is designed to provide students with some exposure and skills in statistical methods which is intended to complement programs in other disciplines that involve quantitative research.

Enquiries: 700 University Avenue, 9th Floor, Ontario Power Building (416-978-3452)

Associate Chair, Undergraduate Studies: Statistics - Professor, Teaching Stream N. Taback; email: ugchair.statistics@utoronto.ca

Associate Chair, Undergraduate Studies: Actuarial Science - Associate Professor, Teaching Stream V. Zhang; email: ugchair.actsci@utoronto.ca

Arts & Science Internship Program

Starting Fall 2021, the new [Arts & Science Internship Program](#) (ASIP) stream is available to students who are entering Year 2 or Year 3 of study and enrolled in the Data Science Specialist, the Specialist in Statistical Science: Methods and Practice, and the Specialist in Statistical Science: Theory and Methods programs.

- Enrolment is limited and requires a supplemental application. Students enrolled in the ASIP stream will be required to complete mandatory Professional Development programming plus a

minimum of 12 and maximum of 20 months (Year 2 entry) or a minimum of 12 and maximum of 16 months (Year 3 entry) of paid, full-time work experience. The time to degree completion for students enrolled in ASIP will normally be 5 years. There is an additional cost to participate in the ASIP stream.

- Students will typically be admitted to the ASIP stream for the Fall term of Year 2 of study, however, in exceptional circumstances students, including transfer students, who enrolled in an eligible program in the Summer after Year 2 can be admitted to the ASIP stream for the Fall of Year 3. Acceptance into an ASIP stream in Year 3 is dependent on space and requires approval of the student's academic unit and the Faculty of Arts & Science Experiential Learning & Outreach Support (ELOS) Office. Please refer to the [ASIP eligibility page](#) for further details.
- Further details about ASIP, including eligibility requirements and application procedures, can be found [here](#). Students may also visit the [ASIP webpage](#) or contact the ELOS office at asip@utoronto.ca.

Statistical Sciences Programs

Applied Data Science Minor (Science Program) - ASMIN0160

More than at any other time in our history, we are living through a paradigm shift in how we think about data. Advances in computing power, algorithms for data modeling and machine learning, coupled with unparalleled access to vast quantities of data has transformed disciplines across the sciences, social sciences, and humanities. The Minor in Applied Data Science will help students learn fundamental data science methodologies drawn from computing and statistics and provide opportunities to apply these methodologies to datasets, problem domains, and explorations in many disciplines of study in Arts & Science. Understanding the human and ethical contexts and communicating results of data science methodologies will appear in courses throughout the program.

The minor is designed to complement programs in other areas with opportunities for data science applications (see program requirements for pertinent programs). This program is designed to be accessible to students who have never done any computer programming or statistics before, or who haven't taken high school or university calculus. All skills necessary to succeed in the program are taught in our courses. Most students who are interested in this program should start by choosing one of our three introductory, interdisciplinary data science courses: [EEB125H1](#), [GGR274H1](#), or [ENG286H1](#), which

introduce data science skills such as computer programming, statistical reasoning, and data visualization within the context of a particular discipline. Students then proceed to take a suite of key computer science and statistics courses that reinforce and extend these skills, with an emphasis on applications to real-world problems. Finally, in later years students will choose from a wide variety of courses drawn from across the Faculty of Arts & Science. These upper-year courses will provide the opportunity to discuss and analyze the human contexts of data science, and to apply data science methodologies in discipline-specific contexts.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum may change each year depending on available spaces and the number of applicants. Eligibility is based on the following criteria:

- A. Completion of one of EEB125H1/ ENG286H1/ GGR274H1/ ESS245H1/ STA130H1 with a grade of at least 60%, OR
- B. Completion of one of CSC108H1/ CSC110Y1/ CSC148H1 with a grade of at least 60%, OR
- C. Completion of one of ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ PSY201H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA261H1/ STA288H1 with a grade of at least 60%.

Obtaining this minimum grade does not guarantee admission to the program. If students have completed more than one of the above courses at the time of admission, the minimum grade will be based on the higher course grade.

Note: Students enrolled in this program cannot be simultaneously enrolled in or complete any Computer Science or Statistics programs, including the Computer Science Minor, Statistics Minor, and Data Science Specialist; nor the Focus in Data Analytics within the Economics Major or Specialist; nor the Focus in Data Science in Business within the Rotman Commerce specialist programs.

Completion Requirements:

(4.0 credits)

1. EEB125H1/ ENG286H1/ GGR274H1/ ESS245H1/ STA130H1
2. 0.5 credit from CSC108H1/ CSC110Y1/ CSC148H1
3. 0.5 credit from ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ PSY201H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA261H1/ STA288H1

Note: If you completed STA238H1, STA248H1, and/or STA261H1 before being admitted to the Minor, please note that these courses are exclusions to EEB125H1, ENG286H1, GGR274H1, and STA130H1. You can complete ESS245H1 to meet requirement 1 or can instead complete an additional 0.5 credit from the list of courses in requirement 7, for a total of 1.5 credits for requirement 7.

If you completed CSC148H1 before being admitted to the Minor, please note that this course is an exclusion to EEB125H1, ENG286H1, and GGR274H1. You can complete ESS245H1 or STA130H1 to meet requirement 1 or can instead complete an additional 0.5 credit from the list of courses in requirement 7, for a total of 1.5 credits for requirement 7.

4. CSC271H1 (first offering in 2025-26)
5. STA272H1 (first offering in 2025-26)
6. PHL277H1/ PHL377H1/ HPS246H1/ CSC300H1

7. At least 1.0 credit from the following courses:
BCB410H1/ BCB420H1/ CHM326H1/ CHM328H1/ CSB352H1/ CSB435H1/ CSB434H1/ CSB471H1/ CSB472H1/ DHU338H1/ EEB313H1/ EEB319H1/ EEB365H1/ EEB458H1/ EEB460H1/ EEB463H1/ ENV338H1/ ESS452H1/ GGR315H1/ GGR372H1/ GGR373H1/ GGR375H1/ GGR376H1/ GGR377H1/ GGR415H1/ GGR462H1/ GGR472H1/ GGR473H1/ IMM360H1/ IRE379H1/ JGA305H1/ JPM400Y1/ LIN305H1/ LIN405H1/ LIN456H1/ MGY441H1/ POL314H1/ POL352H1/ POL419H1/ PCL367H1/ PCL368H1/ PSL432H1/ PSY305H1/ SOC303H1/ 0.5 or 1.0 credits from a 300-/400-level capstone, topics, or independent study course(s) in which students apply data science methodologies, and with prior approval of the Applied Data Science Minor Program Director

Courses listed in requirement 7 are offered by academic units across the Faculty of Arts & Science. Please review the prerequisites and enrolment controls for the course(s) that you are planning to take to complete this requirement. Course enrolment controls are listed in the University's Timetable Builder. Course descriptions, prerequisites, corequisites, and exclusions are listed in both in the Timetable Builder and in the Faculty of Arts & Science Academic Calendar.

Data Science Specialist (Science Program) - ASSPE1687

The field of Data Science is a combination of statistics and computer science methodologies that enable 'learning from data'. A data scientist extracts information from data, and is involved with every step that must be taken to achieve this goal, from getting acquainted with the data to communicating the results in non-technical language. The

Data Science Specialist program prepares students for work in the Data Science industry or government and for graduate studies in Data Science, Computer Science, or Statistics. Students in the program will benefit from a range of advanced courses in Computer Science and Statistics offered by the University of Toronto, as well as from a sequence of three integrative courses designed especially for the program.

The Data Science Specialist program comprises three fundamental and highly-integrated aspects. First, students will acquire expertise in statistical reasoning, methods, and inference essential for any data analyst. Second, students will receive in-depth training in computer science: the design and analysis of algorithms and data structures for handling large amounts of data, and best practices in software design. Students will receive training in machine learning, which lies at the intersection of computer and statistical sciences. The third aspect is the application of computer science and statistics to produce analyses of complex, large-scale datasets, and the communication of the results of these analyses; students will receive training in these areas by taking integrative courses that are designed specifically for the Data Science Specialist program. The courses involve experiential learning: students will be working with real large-scale datasets from the domain of business, government, and/or science. The successful student will combine their expertise in computer and statistical science to produce and communicate analyses of complex large-scale datasets.

Skills that graduates of the program will acquire include proficiency in statistical reasoning and computational thinking; data manipulation and exploration, visualization, and communication that are required for work as a data scientist; the ability to apply statistical methods to solve problems in the context of scientific research, business, and government; familiarity and experience with best practices in software development; and knowledge of current software infrastructure for handling large data sets. Graduates of the program will be able to demonstrate the ability to apply machine learning algorithms to large-scale datasets that arise in scientific research, government, and business; create appropriate data visualizations for complex datasets; identify and answer questions that involve applying statistical methods or machine learning algorithms to complex data, and communicating the results; present the results and limitations of a data analysis at an appropriate technical level for the intended audience.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

For students admitted to Arts & Science in the Year 1 Computer Science (CMP1) admission category:

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on the number of applicants. At least 20 spaces will be available each year for students applying from Year 1 Computer Science (CMP1) within 12 months of beginning their studies:

- CSC110Y1
- CSC111H1
- MAT137Y1/ MAT157Y1
- STA130H1/ STA261H1*

* STA130H1 is restricted to first-year students, therefore students are strongly encouraged to take STA130H1 in their first year. STA261H1 will be used in place of STA130H1 for program admission purposes if a student has not completed STA130H1 or if they have completed both STA130H1 and STA261H1 by the time they are being considered for admission.

To ensure that students admitted to the program will be successful, applicants will not be considered for admission with a grade lower than 70% in CSC110Y1, MAT137Y1, and STA130H1/ STA261H1, or lower than 77% in CSC111H1. (MAT157Y1 grades will be adjusted to account for the course's greater difficulty.) Obtaining these minimum grades does not guarantee admission to the program.

For students admitted to other Arts & Science Year 1 admission categories:

Special Requirement

- Students who do not have the Computer Science Admission Guarantee must complete a supplementary application to be considered for the program.

Variable Minimum Grade

A minimum grade is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- CSC148H1
- MAT137Y1/ MAT157Y1
- STA130H1/ STA261H1*

* STA130H1 is restricted to first-year students, therefore students are strongly encouraged to take STA130H1 in their first year. STA261H1 will be used in place of STA130H1 for program admission purposes if a student has not completed STA130H1 or if they have completed both STA130H1 and STA261H1 by the time they are being considered for admission.

To ensure that students admitted to the program will be successful, applicants with a grade lower than 70% will

not be considered for admission. (MAT157Y1 grades will be adjusted to account for the course's greater difficulty.) Obtaining these minimum grades does not guarantee admission to the program.

Notes:

1. Requests for admission will be considered in the first program request period only.
2. Due to the limited enrolment nature of this program, students are strongly advised to plan to enroll in backup programs.
3. Students admitted to the program after second or third year will be required to pay retroactive deregulated program fees.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Data Science Specialist in the Summer after Year 2.

Completion Requirements:

(13.0-13.5 credits, including at least 1.5 credits at the 400-level)

First year (3.0-3.5 credits)

MAT137Y1/ MAT157Y1, MAT223H1/ MAT240H1 (MAT240H1 is recommended), STA130H1, (CSC108H1, CSC148H1)/ (CSC110Y1, CSC111H1)

Note: Students with a strong background in an object-oriented language such as Python, Java or C++ may omit CSC108H1 and proceed directly with CSC148H1. There is no need to replace the missing half-credit for program completion; however, please base your course choice on what you are ready to take, not on "saving" a half-credit. Consult with the Computer Science Undergraduate Office for advice on choosing between CSC108H1 and CSC148H1.

Students in this program have the option to enrol in the Arts & Science Internship Program (ASIP) stream.

Second year (3.5-4.0 credits)

MAT237Y1/ MAT257Y1, STA257H1, STA261H1, CSC207H1, (CSC165H1, CSC236H1)/ CSC236H1/ CSC240H1 (CSC240H1 is recommended), JSC270H1 (Data Science I)

Note: CSC240H1 is an accelerated and enriched version of CSC165H1 plus CSC236H1, intended for students with a strong mathematical background, or who develop an interest after taking CSC165H1. If you take CSC240H1

without CSC165H1, there is no need to replace the missing half-credit for program completion; however, please base your course choice on what you are ready to take, not on "saving" a half-credit. Consult the Computer Science Undergraduate Office for advice on choosing between CSC165H1 and CSC240H1. CSC236H1 may be taken without CSC165H1 for students who completed CSC111H1.

Later years (6.5 credits/7.0 credits for students who have not completed STA130H1 (see 4.))

1. STA302H1, one of STA303H1 or STA305H1, STA355H1, CSC209H1, CSC263H1/ CSC265H1 (CSC265H1 is recommended), CSC343H1, CSC373H1, JSC370H1 (Data Science II)
2. STA314H1/ CSC311H1
3. 2.0 credits from the following list, including at least 1.0 credit at the 400-level (see below for additional conditions): STA303H1/ STA305H1 (whichever one was not taken previously), STA313H1/ CSC316H1, STA347H1, CSC401H1, STA414H1/ CSC412H1, CSC413H1/ CSC421H1, any 400-level STA course; JSC470H1 (Data Science III); CSC454H1, CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1.
4. If a student has not completed STA130H1 then an additional 0.5 credit 300+ level STA course that is not used towards any other program requirement must be completed.

The choices from 3 must satisfy the requirement for an integrative, inquiry-based activity by including at least 0.5 credit from the following: JSC470H1 (Data Science III); CSC454H1, CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1, STA490Y1, STA496H1, STA497H1, STA498Y1, STA499Y1. Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

Transfer credits (except for those attained through a University of Toronto exchange program) cannot comprise more than 1.0 credit at the 300-/400-level, and cannot be used to satisfy the requirement for an integrative, inquiry-based activity. In addition, transfer credits (except for those attained through a University of Toronto exchange program) cannot comprise more than 0.5 credit of the 400-level CSC or STA or JSC courses required.

Students will be advised to develop domain expertise in at least one area where Data Science is applicable, by taking a sequence of courses in that area throughout their program. Examples of such areas will be provided to students by program advisors and will form the basis for a later proposal for program Focuses (to be approved through internal Arts & Science governance procedures).

Note:

-If you do not complete STA130H1 in your first year of study, this requirement must be fulfilled by completing a 300 or 400-level 0.5 credit STA course to replace

STA130H1. Please note that the 300 or 400-level STA course used to replace STA130H1 cannot be a course that is already being used to meet a program completion requirement.

Specialist in Statistical Science: Methods and Practice (Science Program) - ASSPE2270

Statistical Science encompasses methods and tools for obtaining knowledge from data and for understanding the uncertainty associated with this knowledge. The purposes of the undergraduate programs are to: (1) equip students with a general framework for obtaining knowledge from data; (2) give students skills that they are able to flexibly apply to a variety of problems; and (3) to provide students with the ability to learn new methods as needs, data sources, and technology change.

The Specialist Program in Statistical Science: Methods and Practice is distinguished from the specialist program in Statistical Science: Theory and Methods through its emphasis on collaborative statistical practice and advanced exposure to an allied discipline. The program includes fundamental concepts in probability and statistical theory with mathematical prerequisites relevant to statistical practice. Students in the program acquire advanced expertise in statistical reasoning, methods, and computation, and complete a focus in another discipline that permits students to become conversant in that discipline to the extent that they can effectively collaborate. Students will also acquire advanced skills in communication, consultation and collaboration and an understanding of the role of mathematical thinking to support the development and evaluate the properties of statistical methods.

Enrolment Requirements:

This is a limited enrolment program. Note there are different admission criteria depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

For students who have completed between 4.0 and 8.5 credits:

Completed Courses (some with minimum grades)
The following courses are required:

- STA130H1
- CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1
- MAT223H1/ MAT224H1/ MAT240H1
- (MAT135H1 and MAT136H1) with a minimum grade of 73% in each/ MAT137Y1 (63%)/ MAT157Y1 (63%)

Variable Minimum Grade Average

A minimum grade average in STA130H1 and (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1 is needed for entry. This minimum grade average changes each year depending on available spaces and the number of applicants.

Note:

- Students who take (MAT135H1 and MAT136H1) will typically require a higher minimum grade average than students who take MAT137Y1/ MAT157Y1.

- STA130H1 is restricted to first-year students, therefore students are strongly encouraged to take STA130H1 in their first year. If you are unable to complete STA130H1 in first year, see notes below for accepted substitutions for this requirement.

For students who have completed 9.0 or more credits:

Completed Courses (some with minimum grades)
The following courses are required:

- CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1
- MAT223H1/ MAT224H1/ MAT240H1
- MAT235Y1/ MAT237Y1/ MAT257Y1
- (STA237H1 and STA238H1) with a minimum grade of 73% in each/ (STA247H1 and STA248H1) with a minimum grade of 73% in each/ (STA257H1 and STA261H1) with a minimum grade of 63% in each.

Variable Minimum Grade Average

A minimum grade average in (STA237H1 and STA238H1)/ (STA247H1 and STA248H1)/ (STA257H1 and STA261H1) and MAT235Y1/ MAT237Y1/ MAT257Y1 is needed for entry. This minimum grade average changes each year depending on available spaces and the number of applicants.

Note:

Students who take (STA237H1, STA238H1)/ (STA247H1, STA248H1) will typically require a higher minimum grade average than students who take (STA257H1, STA261H1).

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Specialist in Statistical Science: Methods and Practice in the Summer after Year 2.

Completion Requirements:

(10.5 or 11.0 credits plus a disciplinary focus requiring 2.0-3.5 credits)

First year:

1. STA130H1, (CSC108H1, CSC148H1) / (CSC110Y1, CSC111H1) / (CSC110Y1, CSC148H1), (MAT135H1, MAT136H1) / MAT137Y1 / MAT157Y1. (MAT137Y1 / MAT157Y1 recommended)

Notes:

1. Students with a strong background in an object-oriented language such as Python, Java or C++ may omit CSC108H1 and proceed directly with CSC148H1. [There is no need to replace the missing 0.5 credit for program completion; however, please base your course choice on what you are ready to take, not on "saving" a 0.5 credit].

2. Recommended: introductory course in disciplinary focus. MAT223H1 / MAT224H1 / MAT240H1 is also strongly recommended to be taken in first year and is required preparation for MAT237Y1.

Second year:

3. MAT223H1 / MAT224H1 / MAT240H1, MAT235Y1 / MAT237Y1 / MAT257Y1, (STA237H1, STA238H1) / (STA247H1, STA248H1) / (STA257H1, STA261H1)

((STA257H1, STA261H1) recommended)

Upper years:

4. STA302H1, STA303H1, STA304H1 / STA305H1, STA313H1 / STA314H1 / STA365H1, STA355H1

5. 1.5 credits from the following list: STA414H1, STA437H1, STA442H1, STA457H1, STA465H1, STA475H1, STA480H1, STA410H1

6. STA490Y1. Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

7. 1.0 credit from the following list: MAT224H1 / MAT247H1, MAT337H1 / MAT357H1, CSC207H1, or any remaining 300+ level STA courses not used toward other requirements of this program - STA304H1, STA305H1, STA313H1, STA314H1, STA347H1, STA365H1, STA410H1, STA414H1, STA437H1, STA442H1, STA447H1, STA450H1, STA452H1, STA453H1, STA457H1, STA465H1, STA475H1, STA480H1, STA492H1, STA496H1 / STA497H1 (STA399H1 and STA399Y1 may be considered on a case by case basis with the approval of the Program Director.)

Notes:

-If you do not complete STA130H1 in your first year of study, this requirement must be fulfilled by completing a 300 or 400-level 0.5 credit STA course to replace STA130H1. Please note that the 300 or 400-level STA course used to replace STA130H1 cannot be a course that is already being used to meet a program completion requirement.

Disciplinary Focuses

Students in the Specialist Program in Statistical Science: Methods and Practice program must enrol in and complete at least one disciplinary focus.

To enrol in one or more focuses, students must first be enrolled in the Specialist Program in Statistical Science: Methods and Practice program. Enrolment instructions can be found on the [Arts & Science Program Toolkit website](#). Focuses can be chosen on ACORN after admission to the program, which begins in July.

Health Studies (ASFOC2270A): (2.0 credits) HMB342H1, at least 0.5 credit from HST209H1 / HST211H1 / HST250H1, and at least 0.5 credit from HST308H1 / HST310H1 / HST405H1 / HST330H1 / HST440H1 / HST464H1

Global Health (ASFOC2270B): (3.0 credits) BIO120H1, BIO130H1, HMB203H1, HMB265H1, HMB323H1 / HMB303H1 / HMB306H1 / JNH350H1 / HMB342H1, HMB433H1 / HMB406H1 / HMB462H1 / HJ453H1 / HMB434H1 (Recommended: HMB433H1)

Health and Disease (ASFOC2270C): (3.0 credits) BIO120H1, BIO130H1, HMB202H1, HMB265H1, HMB302H1 / HMB322H1 / HMB312H1 / HMB342H1, HMB422H1 / HMB402H1 / HMB432H1 / HMB434H1 / HMB435H1 / HMB436H1 / HMB437H1 / HMB452H1 / HMB462H1

Fundamental Genetics and its Applications (ASFOC2270D): (3.0 credits) BIO120H1, BIO130H1, HMB201H1, HMB265H1, HMB301H1 / HMB311H1 / HMB321H1 / HMB360H1, HMB421H1 / HMB441H1 / HMB401H1 / HMB431H1 (Recommended: HMB421H1)

Neuroscience (ASFOC2270E): (3.0 credits) BIO120H1, BIO130H1, HMB200H1, HMB265H1, HMB300H1 / HMB310H1 / HMB320H1 / HMB360H1 / CJH332H1, HMB420H1 / JHA410H1 / HMB430H1 / HMB450H1 (Recommended: HMB420H1)

Social Psychology (ASFOC2270F): (2.0 credits) PSY100H1, PSY220H1, PSY322H1, PSY326H1 / PSY321H1 / PSY424H1 / PSY426H1 / PSY405H1 / PSY406H1

Cognitive Psychology (ASFOC2270G): (2.0 credits)
PSY100H1, PSY270H1, PSY493H1, PSY372H1/
PSY405H1/ PSY406H1/ PSY475H1

Sociolinguistics (ASFOC2270H): (3.0 credits) LIN100Y1;
 two of LIN228H1, LIN229H1, LIN232H1 or LIN241H1;
LIN351H1 and LIN456H1

Psycholinguistics (ASFOC2270I): (3.0 credits) LIN100Y1;
 two of LIN228H1, LIN229H1, LIN232H1 or LIN241H1; two
 of JLP374H1, JLP315H1 or JLP471H1

Astronomy & Astrophysics (ASFOC2270J): (2.5 or 3.0
 credits) (PHY131H1, PHY132H1)/ (PHY151H1,
PHY152H1); AST221H1, AST222H1; (PHY252H1,
AST320H1)/ AST325H1/ AST326Y1

Sociology (ASFOC2270K): (2.5 credits) (SOC100H1,
SOC150H1) with a combined minimum grade average of
 65%; SOC204H1; 1.0 credit from SOC303H1,
SOC312H1, SOC336H1, SOC355H1, SOC363H1,
SOC364H1.

Students interested in advanced study in Sociology should
 consider additional courses, in particular SOC201H1,
SOC251H1, and SOC254H1

Ecology (ASFOC2270L): (3.0 credits) BIO120H1,
BIO220H1; 2.0 credits from (with at least a 0.5 credit at
 the 400-level) EEB319H1/ EEB321H1/ EEB328H1/
EEB365H1/ EEB428H1/ EEB433H1/ EEB440H1 or
ENV234H1/ ENV334H1/ ENV432H1

Evolutionary Biology (ASFOC2270M): (3.5 credits)
BIO120H1, BIO130H1, BIO220H1; 1.5 credits from
HMB265H1/ BIO260H1, EEB318H1, EEB323H1,
EEB324H1, EEB325H1, EEB362H1, EHJ352H1; 0.5
 credit from EEB440H1, EEB455H1, EEB458H1,
EEB459H1, EEB460H1

Notes:

- BIO260H1 requires BIO230H1 as a prerequisite.
- Students in the Focus in Evolutionary Biology can request that HMB waive the co-requisite of BIO230H1 for HMB265H1 and that EEB waive the prerequisite of BIO230H1 for EEB460H1. These waivers will only be considered for students in the Applied Statistics specialist focus in Evolutionary Biology. All other pre- and co-requisites are required.

Economics (ASFOC2270N): (3.5 credits) (ECO101H1,
ECO102H1), ECO200Y1/ ECO206Y1, ECO202Y1/
ECO208Y1, 0.5 credit 300+ series ECO course with the
 exception of ECO374H1 and ECO375H1

Biochemistry (ASFOC2270O): (3.0 credits)
CHM135H1, CHM136H1, BCH210H1, BCH311H1,
BCH370H1, BCH441H1

Physics (ASFOC2270P): (2.5 credits)
PHY131H1/ PHY151H1, PHY132H1/ PHY152H1,
PHY224H1, PHY252H1/ PHY254H1/ PHY256H1,
PHY324H1

Pharmacology and Biomedical Toxicology
 (ASFOC2270Q): (3.0 credits)
BIO130H1 (70%), PSL300H1, PSL301H1, PCL201H1,
PCL302H1, PCL345H1/ PCL362H1/ PCL381H1/
PCL469H1/ PCL470H1

Immunology (3.0 Credits) - BIO130H1 (70%), IMM250H1,
IMM340H1, IMM350H1, IMM360H1, IMM429H1/
IMM430H1/ IMM431H1/ IMM435H1

Students in the Focus in Immunology can request that
 Immunology waive the BIO and BCH prerequisites for
IMM340H1, IMM360H1, and IMM435H1. These waivers
 will only be considered for students in the Specialist in
 Statistical Science: Methods and Practice Focus in
 Immunology. All other pre- and co-requisites are required.

Specialist in Statistical Science: Theory and Methods (Science Program) - ASSPE2290

Statistical Science encompasses methods and tools for
 obtaining knowledge from data and for understanding the
 uncertainty associated with this knowledge. The purposes
 of the undergraduate programs are to: (1) equip students
 with a general framework for obtaining knowledge from
 data; (2) give students skills that they are able to flexibly
 apply to a variety of problems; and (3) to provide students
 with the ability to learn new methods as needs, data
 sources, and technology change.

The Specialist Program in Statistical Science: Theory and
 Methods emphasizes probability and the theory of
 statistical inference as underlying mathematical
 frameworks for statistical data analysis. Students in the
 program acquire advanced expertise in statistical theory
 and methods, as well as an understanding of the role of
 statistical science to solve problems in a variety of
 contexts. The successful student will also acquire skills in
 mathematical reasoning, computational thinking, and
 communication in the context of solving statistical
 problems.

Enrolment Requirements:

This is a limited enrolment program. Note there are
 different admission criteria depending on whether a
 student has completed between 4.0 and 8.5 credits, or 9.0
 or more credits.

For students who have completed between 4.0 and 8.5 credits:

Completed Courses (some with minimum grades)

The following courses are required:

- STA130H1
- CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1
- MAT223H1/ MAT224H1/ MAT240H1
- MAT137Y1 (63%)/ MAT157Y1 (63%)

Variable Minimum Grade Average

A minimum grade average in STA130H1 and MAT137Y1/ MAT157Y1 is needed for entry. This minimum grade average changes each year depending on available spaces and the number of applicants.

Note:

- STA130H1 is restricted to first-year students, therefore students are strongly encouraged to take STA130H1 in their first year. If you are unable to complete STA130H1 in first year, see notes below for accepted substitutions for this requirement.

For students who have completed 9.0 or more credits:

Completed Courses (some with minimum grades)

The following courses are required:

- CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1
- MAT223H1/ MAT224H1/ MAT240H1
- MAT237Y1/ MAT257Y1
- STA257H1 (63%) and STA261H1 (63%)

Variable Minimum Grade Average

A minimum grade average in (STA257H1 and STA261H1) and MAT237Y1/ MAT257Y1 is needed for entry. This minimum grade average changes each year depending on available spaces and the number of applicants.

Arts & Science Internship Program

Students in this program have the option to request enrolment in the Arts & Science Internship Program (ASIP) stream. Students can apply for the ASIP stream after Year 1 (Year 2 entry) or after Year 2 (Year 3 entry). Full details about ASIP, including student eligibility, selection and enrolment, are available in the ASIP section of the Arts & Science Academic Calendar. Please note that space is more limited for Year 3 entry and students applying for Year 3 entry must have been admitted to the Specialist in Statistical Science: Theory and Methods in the Summer after Year 2.

Completion Requirements:

(11.0 or 11.5 credits)

First Year:

STA130H1, CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1, MAT137Y1/ MAT157Y1, MAT223H1/ MAT224H1/ MAT240H1

Second Year:

MAT224H1/ MAT247H1, MAT237Y1/ MAT257Y1; STA257H1, STA261H1

Higher Years:

1. STA302H1, STA303H1, STA304H1/ STA305H1, STA313H1/ STA314H1/ STA365H1, STA347H1, STA355H1

2. 1.0 credit from the following list: STA410H1, STA414H1, STA437H1, STA442H1, STA457H1, STA465H1, STA475H1, STA480H1

3. One of STA447H1, STA452H1, STA453H1

4. 1.0 credit from: ACT451H1, ACT452H1, ACT460H1, MAT327H1, MAT332H1, MAT334H1/ MAT354H1, MAT337H1/ MAT357H1, MAT301H1/ MAT347Y1, MAT344H1, CSC207H1, CSC336H1, CSC343H1, or any remaining 300+ level STA courses not used toward other program requirements - STA304H1, STA305H1, STA313H1, STA314H1, STA365H1, STA410H1, STA414H1, STA437H1, STA442H1, STA447H1, STA450H1, STA452H1, STA453H1, STA457H1, STA465H1, STA475H1, STA480H1, STA490Y1, STA492H1, STA496H1/ STA497H1 (STA399H1 and STA399Y1 may be considered on a case by case basis with the approval of the Program Director.)

5. One of STA492H1, STA496H1/ STA497H1/ STA498Y1/ STA499Y1. Students who complete the Arts & Science Internship Program (ASIP) stream will also meet this requirement.

Students planning to take any of these courses should ensure they have the required prerequisites

Note:

- If you do not complete STA130H1 in your first year of study, this requirement must be fulfilled by completing a 300 or 400-level 0.5 credit STA course to replace STA130H1. Please note that the 300 or 400-level STA course used to replace STA130H1 cannot be a course that is already being used to meet a program completion requirement.

Statistics Major (Science Program) - ASMAJ2289

Statistical Science encompasses methods and tools for obtaining knowledge from data and for understanding the uncertainty associated with this knowledge. The purposes of the undergraduate programs are to: (1) equip students with a general framework for obtaining knowledge from data; (2) give students skills that they are able to flexibly apply to a variety of problems; and (3) to provide students with the ability to learn new methods as needs, data sources, and technology change.

The Major in Statistics gives students a broad understanding of the statistical methods and computational and communication skills appropriate for effective statistical problem solving. The successful student will also acquire a general understanding of the role of mathematical thinking to support the development and evaluate the properties of statistical methods. While the Major is designed to complement study in an area of application of quantitative methods, students in the Major may choose to have a greater focus in probability and statistical theory through elective courses.

Enrolment Requirements:

This is a limited enrolment program. Note there are different admission criteria depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

For students who have completed between 4.0 and 8.5 credits:

Completed Courses

The following courses are required:

- STA130H1
- (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1

Variable Minimum Grade Average

A minimum grade average in STA130H1 and (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1 is needed for entry. This minimum grade average changes each year depending on available spaces and the number of applicants.

Note:

- Students who take (MAT135H1 and MAT136H1) will typically require a higher minimum grade average than students who take MAT137Y1/ MAT157Y1.
- STA130H1 is restricted to first-year students, therefore students are strongly encouraged to take STA130H1 in their first year. If you are unable to complete STA130H1 in first year, see notes below for accepted substitutions for this requirement.

For students who have completed 9.0 or more credits:

Completed Courses

The following courses are required:

- CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1
- MAT223H1/ MAT224H1/ MAT240H1
- MAT235Y1/ MAT237Y1/ MAT257Y1
- (STA237H1 and STA238H1)/ (STA247H1 and STA248H1)/ (STA257H1 and STA261H1)/ ECO227Y1

Variable Minimum Grade Average

A minimum grade average in (STA237H1 and STA238H1)/ (STA247H1 and STA248H1)/ (STA257H1 and STA261H1)/ ECO227Y1 and MAT235Y1/ MAT237Y1/ MAT257Y1 is needed for entry. This minimum grade average changes each year depending on available spaces and the number of applicants.

Note:

- Students who take (STA237H1 and STA238H1)/ (STA247H1 and STA248H1) will typically require a higher minimum grade average than students who take (STA257H1 and STA261H1)/ ECO227Y1.

Completion Requirements:

(7.0 or 7.5 credits, including a 0.5 credit STA 400-series course)

First Year:

STA130H1, CSC108H1/ CSC110Y1/ CSC111H1/ CSC120H1/ CSC148H1, (MAT135H1, MAT136H1)/ MAT137Y1/ MAT157Y1.

(MAT223H1/ MAT224H1/ MAT240H1 recommended in first year)

Second Year:

MAT223H1/ MAT224H1/ MAT240H1, MAT235Y1/ MAT237Y1/ MAT257Y1; (STA247H1, STA248H1)/ (STA237H1, STA238H1)/ (STA257H1, STA261H1)/ ECO227Y1

(STA237H1 and STA238H1 are strongly recommended. MAT221H1 may not be used for this requirement.)

Higher Years:

1. STA302H1
2. 0.5 credit from STA313H1/ STA314H1/ STA365H1/ STA347H1/ STA355H1
3. 0.5 credit from STA414H1/ STA437H1/ STA442H1/ STA457H1/ STA465H1/ STA475H1/ STA480H1
4. 1.0 credit from remaining STA300+ level courses not used toward other program requirements in the following list: STA303H1, STA304H1, STA305H1, STA313H1, STA314H1, STA347H1, STA355H1, STA365H1, STA410H1, STA414H1, STA437H1, STA442H1,

STA447H1, STA450H1, STA452H1, STA453H1, STA457H1, STA465H1, STA475H1, STA480H1, STA490Y1, STA492H1, STA496H1/ STA497H1 (STA399H1 and STA399Y1 may be considered on a case by case basis with the approval of the Program Director).

Note:

- If you do not complete STA130H1 in your first year of study, this requirement must be fulfilled by completing a 300 or 400-level 0.5 credit STA course to replace STA130H1. Please note that the 300 or 400-level STA course used to replace STA130H1 cannot be a course that is already being used to meet a program completion requirement.

Statistics Minor (Science Program) - ASMIN2289

Statistical Science encompasses methods and tools for obtaining knowledge from data and for understanding the uncertainty associated with this knowledge.

The Minor in Statistics is designed to provide students with some exposure and skills in statistical methods. It complements programs in other disciplines which involve quantitative research.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

First Year:

MAT133Y1 (70%)/(MAT135H1, MAT136H1)/MAT135Y/MAT137Y1/ MAT157Y1; CSC108H1/ CSC110Y1/CSC111H1/ CSC120H1/ CSC148H1. (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1 is strongly recommended).

STA130H1 is also strongly recommended.

Second Year:

MAT223H1/ MAT224H1/ MAT240H1, (STA220H1/ STA221H1/ ECO220Y1, STA255H1)/(STA237H1, STA238H1)/(STA247H1, STA248H1)/(STA257H1, STA261H1)/ ECO227Y1

MAT223H1/ MAT224H1/ MAT240H1 recommended in 1st year

Higher Years:

STA302H1

0.5 credit from the following list: STA303H1, STA304H1, STA305H1, STA313H1, STA314H1, STA347H1, STA355H1, STA365H1, STA410H1, STA437H1, STA450H1, STA457H1

Focus in Technology Leadership (Data Science Specialist) - ASFOC1687A

The Technology Leadership Focus combines the development of applied Computer Science skills with an exploration of the core aspects of leadership within the context of the technology sector.

Students who complete the Technology Leadership Focus will be well-prepared to step into leadership roles and navigate the complexities of the tech industry.

To enrol in the Technology Leadership Focus, you must meet eligibility requirements, apply and be admitted, as detailed in "Enrolment Requirements."

Enrolment Requirements:

To be admitted to the Technology Leadership Focus, you must:

- Have not yet completed CSC207H1 prior to beginning Focus requirements.
- Complete an application and/or interview. Application information will be provided to all Computer Science Specialist and Major and Data Science Specialist program applicants during the Round 1 program admission period.
- Students who complete the Technology Leadership Focus application and/or interview and are admitted to a Computer Science Specialist or Major or Data Science Specialist program will be considered for admission to the Focus.

Students admitted to the Focus will be enrolled in an industry-engaged version of CSC207H1 in the Fall term. This industry-engaged version of CSC207H1 is a required component of the Focus, and is a prerequisite to CSC308H1.

Completion Requirements:

1. Industry-engaged version of CSC207H1: Software Design
2. CSC308H1: Technology Leadership

3. 0.5 credits from CSC301H1, CSC302H1, CSC309H1, CSC318H1, and CSC343H1
4. 1.0 credits including:
 - a. Up to 0.5 credits from CSC301H1, CSC302H1, CSC309H1, CSC318H1, and CSC343H1 (if not taken in list 3)
 - b. Up to 1.0 credits from CSC404H1, CSC413H1, CSC417H1, CSC419H1, CSC428H1, CSC454H1, CSC485H1, CSC490H1, CSC491H1, CSC494H1, CSC495H1, CSC494Y1

Additionally, participating students will be invited to participate in co-curricular community-building and networking activities. These co-curricular activities will provide opportunities for students to meet leaders in the field and to reflect on their own leadership development.

About Courses in Statistical Sciences

The statistics course offerings are intended not only for students in statistics programs of study, but also to serve the needs of the many other disciplines that use statistical methods.

- The first-year seminar courses, STA197H1, STA198H1 and STA199H1, are designed to provide first-year students with the opportunity to work closely with an instructor in a small class setting. Note that these courses do not count toward a Statistics program of study.
- First year students wishing to enrol in a major or specialist program in the Department of Statistical Sciences must take STA130H1, which provides a broad introduction to statistical reasoning, data science, statistical computation and communication.

Statistical Sciences Courses

STA130H1 - An Introduction to Statistical Reasoning and Data Science

Hours: 24L/24P

This course, intended for students considering a program in Statistical Sciences, discusses the crucial role played by statistical reasoning in solving challenging problems from natural science, social science, technology, health care, and public policy, using a combination of logical thinking, mathematics, computer simulation, and oral and written discussion and analysis.

- The second year foundation courses (STA220H1, STA221H1, STA237H1, STA238H1, STA247H1, STA248H1, STA255H1, STA257H1, and STA261H1) are distinguished primarily by their mathematical demands, as indicated by the prerequisites. Students interested in pursuing more advanced study in probability and theoretical statistics should take STA257H1 and STA261H1. They are the most mathematically rigorous of the 2nd year courses and provide the greatest flexibility when choosing upper-year courses. They are required by students in the specialist programs in Statistical Science: Theory and Methods and Data Science. Students in the specialist program in Statistical Science: Methods and Practice or in the major program in Statistics may instead choose STA237H1 and STA238H1. Students in computer science programs of study can take STA247H1 and STA248H1. The courses STA288H1, STA220H1 and STA221H1 provide training in statistical reasoning and methods for students in other programs of study, with STA288H1 particularly designed for students in life science programs. Students interested in completing a minor in statistics can combine STA220H1 with STA255H1, which will provide preparation in probability and statistical theory sufficient for many of the upper year courses in statistical methods.
- Pre- and co-requisites are designed to ensure that students have the appropriate preparation for their courses. They are strictly enforced. However, exceptions can be considered for students who have taken an equivalent course at another university. If you have taken courses that are exclusions to pre- or co-requisite courses, though, you should be aware that these are not always equivalent to the requisite courses and may not be allowed.

Corequisite: MAT135H1/ MAT136H1/ MAT137Y1/ MAT157Y1, (CSC108H1/ equivalent programming experience)/ CSC110Y1/ CSC148H1 *Note: the corequisite may be completed either concurrently or in advance.

Exclusion: Any of STA220H1/ STA255H1/ STA238H1/ STA248H1/ STA261H1/ ECO220Y1/ ECO227Y1/ STAB22H3/ STA220H5/ STAB57H3/ STA258H5/ STA260H5/ ECO220Y5/ ECO227Y5/ STAA57H3 taken previously or concurrently

Breadth Requirements: The Physical and Mathematical Universes (5)

STA197H1 - Thinking Better with Statistics

Hours: 24S

This course explores how our statistical intuitions and ways of thinking can let us down. There's no need to be a math whiz to be a better statistical thinker. Everyone can become a more critical consumer of claims presented in media, advertisements and by politicians—especially those relevant to our own health and wealth. This course uses real-world examples and tours common and avoidable statistical traps and tricks. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

STA198H1 - Probabilities Everywhere

Hours: 24S

This course examines the meaning and mathematics of probabilities, and how they arise in our everyday lives. Specific topics may include: the nature of coincidences, the concept of luck, games involving dice and cards, long run averages in casinos, margins of error in polls, the interpretation of medical studies, crime statistics, decision making, pseudorandomness, and Monte Carlo algorithms. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Grade 12 Mathematics

Breadth Requirements: The Physical and Mathematical Universes (5)

STA199H1 - Statistical Evidence: Truth or Myth?

Hours: 24S

This course explores the impact Statistics has made and continues to make on everyday life through science, law, and the modern methods for information processing. Statistical principles will be illustrated using examples from real life including business, romance and health. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: The Physical and Mathematical Universes (5)

STA201H1 - Why Numbers Matter

Hours: 36L

This course teaches non-science students the importance of quantitative reasoning to many different areas. It explores a variety of applications to such diverse subjects as economics, gambling, politics, poetry, graphics, music,

medicine, demographics, sports, secret codes, and more, using only basic high school level mathematics combined with logical thinking.

Exclusion: MAT133Y1/ MAT135H1/ MAT136H1/ MAT137Y1/ MAT157Y1/ (MATA29H3, MATA35H3)/ (MATA32H3, MATA33H3)/ (MATA30H3, MATA36H3)/ (MATA31H3, MATA37H3)/ MAT133Y5/ (MAT132H5, MAT134H5)/ (MAT135H5, MAT136H5)/ MAT137Y5/ MAT157Y5

Breadth Requirements: The Physical and Mathematical Universes (5)

STA220H1 - The Practice of Statistics I

Hours: 36L

An introductory course in statistical concepts and methods, emphasizing exploratory data analysis for univariate and bivariate data, sampling and experimental designs, basic probability models, estimation and tests of hypothesis in one-sample and comparative two-sample studies. A statistical computing package is used but no prior computing experience is assumed. Note: STA220H1 does not count as a distribution requirement course.

Exclusion: ECO220Y1/ ECO227Y1/ GGR270H1/ IRW220H1/ PSY201H1/ SOC202H1/ STA261H1/ STA238H1/ STA248H1/ STA288H1/ EEB225H1/ STAB22H3/ STAB57H3/ STA215H5/ STA220H5/ ECO220Y5/ ECO227Y5/ STA258H5/ STA260H5

Recommended Preparation: Grade 12 Mathematics and one University course in BR= 3/ 4/ 5

Breadth Requirements: The Physical and Mathematical Universes (5)

STA221H1 - The Practice of Statistics II

Hours: 36L/12T

Continuation of STA220H1 (or similar course), emphasizing major methods of data analysis such as analysis of variance for one factor and multiple factor designs, regression models, categorical and non-parametric methods (Note: STA221H1 does not count as a distribution requirement course).

Prerequisite: STA220H1/ STA288H1/ PSY201H1/ GGR270H1/ EEB225H1/ STAB22H3/ STA220H5

Exclusion: ECO220Y1/ ECO227Y1/ GGR270Y1/ PSY202H1/ SOC202H1/ SOC252H1/ STA261H1/ STA248H1/ STAB27H3/ STA221H5/ ECO220Y5/ ECO227Y5/ STAB57H3/ STA258H5/ STA260H5

Breadth Requirements: The Physical and Mathematical Universes (5)

STA237H1 - Probability, Statistics and Data Analysis I

Hours: 36L/12T

An introduction to probability using simulation and mathematical frameworks, with emphasis on the probability needed for more advanced study in statistical practice. Topics covered include probability spaces, random variables, discrete and continuous probability distributions, probability mass, density, and distribution functions, expectation and variance, independence, conditional probability, the law of large numbers, the central limit theorem, sampling distributions. Computer simulation will be taught and used extensively for calculations and to guide the theoretical development.

Prerequisite: ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)/ ([MATA30H3](#), [MATA36H3](#))/ ([MATA31H3](#), [MATA37H3](#))/ ([MAT135H5](#), [MAT136H5](#))/ [MAT137Y5](#)/ [MAT157Y5](#)

Corequisite: ([CSC108H1](#)/ equivalent programming experience)/ [CSC110Y1](#)/ [CSC148H1](#) ***Note: the corequisite may be completed either concurrently or in advance.**

Exclusion: [STA247H1](#), [STA255H1](#), [STA257H1](#), [ECO227Y1](#), [MAT370H1](#), [STAB52H3](#), [STA256H5](#), [ECO227Y5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA238H1 - Probability, Statistics and Data Analysis II

Hours: 36L/12T

An introduction to statistical inference and practice. Statistical models and parameters, estimators of parameters and their statistical properties, methods of estimation, confidence intervals, hypothesis testing, likelihood function, the linear model. Use of statistical computation for data analysis and simulation.

Prerequisite: [STA237H1](#)/ [STA247H1](#)/ [STA257H1](#)/ [STAB52H3](#)/ [STA256H5](#)

Corequisite: [CSC108H1](#)/ [CSC110Y1](#)/ [CSC148H1](#) *Note: the corequisite may be completed either concurrently or in advance.

Exclusion: [ECO220Y1](#)/ [ECO227Y1](#)/ [GGR270H1](#)/ [PSY201H1](#)/ [SOC300H1](#)/ [SOC202H1](#)/ [SOC252H1](#)/ [STA220H1](#)/ [STA221H1](#)/ [STA255H1](#)/ [STA248H1](#)/ [STA261H1](#)/ [STA288H1](#)/ [EEB225H1](#)/ [STAB22H3](#)/ [STAB27H3](#)/ [STAB57H3](#)/ [STA220H5](#)/ [STA221H5](#)/ [STA258H5](#)/ [STA260H5](#)/ [ECO220Y5](#)/ [ECO227Y5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA247H1 - Probability with Computer Applications

Hours: 36L/12T

An introduction to probability using simulation and mathematical frameworks, with emphasis on the probability needed for computer science applications and more advanced study in statistical practice. Topics covered include probability spaces, random variables, discrete and continuous probability distributions, probability mass, density, and distribution functions, expectation and variance, independence, conditional probability, the law of large numbers, the central limit theorem, sampling distributions. Computer simulation will be taught and used extensively for calculations and to guide the theoretical development.

Prerequisite: ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)/ ([MATA30H3](#), [MATA36H3](#))/ ([MATA31H3](#), [MATA37H3](#))/ ([MAT135H5](#), [MAT136H5](#))/ [MAT137Y5](#)/ [MAT157Y5](#)/ [CSC111H1](#)/ [CSC148H1](#)/ [CSCA48H3](#)/ [CSC148H5](#)

Exclusion: [ECO227Y1](#)/ [STA255H1](#)/ [STA237H1](#)/ [STA257H1](#)/ [STAB52H3](#)/ [STA256H5](#)/ [ECO227Y5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA248H1 - Statistics for Computer Scientists

Hours: 36L/12T

An introduction to statistical inference and practice needed for computer science applications. Statistical models and parameters, estimators of parameters and their statistical properties, methods of estimation, confidence intervals, hypothesis testing, likelihood function, the linear model. Use of statistical computation for data analysis and simulation.

Prerequisite: [STA237H1](#)/ [STA247H1](#)/ [STA257H1](#)/ [STA256H5](#)/ [STAB52H3](#)/ [CSC111H1](#)/ [CSC148H1](#)/ [CSCA48H3](#)/ [CSC148H5](#)

Exclusion: [ECO220Y1](#)/ [ECO227Y1](#)/ [GGR270H1](#)/ [PSY201H1](#)/ [SOC300H1](#)/ [SOC202H1](#)/ [SOC252H1](#)/ [STA220H1](#)/ [STA221H1](#)/ [STA255H1](#)/ [STA238H1](#)/ [STA261H1](#)/ [STA288H1](#)/ [EEB225H1](#)/ [STAB22H3](#)/ [STAB27H3](#)/ [STAB57H3](#)/ [STA220H5](#)/ [STA221H5](#)/ [STA258H5](#)/ [STA260H5](#)/ [ECO220Y5](#)/ [ECO227Y5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA255H1 - Statistical Theory

Hours: 36L/12T

This course deals with the mathematical aspects of some of the topics discussed in [STA220H1](#). Topics include discrete and continuous probability distributions, conditional probability, expectation, sampling distributions, estimation and testing, the linear model (Note: [STA255H1](#) does not count as a distribution requirement course).

Prerequisite: [STA220H1](#)/ [STA221H1](#)/ [STA288H1](#)/ [ECO220Y1](#) (note: [ECO220Y1](#) may be taken as a co-requisite)/ [STAB22H3](#)/ [STA220H5](#)/ [ECO220Y5](#); [MAT133Y1](#) (70%)/ ([MAT135H1](#), [MAT136H1](#))/ [MAT137Y1](#)/ [MAT157Y1](#)/ ([MATA32H3](#) (70%), [MATA33H3](#) (70%))/ ([MATA29H3](#) (70%), [MATA35H3](#) (70%))/ ([MATA30H3](#), [MATA36H3](#))/ ([MATA31H3](#), [MATA37H3](#))/ [MAT133Y5](#) (70%)/ ([MAT132H5](#) (70%), [MAT134H5](#) (70%))/ ([MAT135H5](#), [MAT136H5](#))/ [MAT137Y5](#)/ [MAT157Y5](#)

Exclusion: [ECO227Y1](#)/ [STA237H1](#)/ [STA238H1](#)/ [STA257H1](#)/ [STA261H1](#)/ [STA247H1](#)/ [STA248H1](#)/ [STAB52H3](#)/ [STAB57H3](#)/ [STA256H5](#)/ [STA260H5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA257H1 - Probability and Statistics I

Hours: 36L/12T

A mathematically rigorous introduction to probability, with applications chosen to introduce concepts of statistical inference. Probability and expectation, discrete and continuous random variables and vectors, distribution and density functions, the law of large numbers. The binomial, geometric, Poisson, and normal distributions. The Central Limit Theorem. (Note: [STA257H1](#) does not count as a distribution requirement course).

Prerequisite: [MAT137Y1](#)/ [MAT157Y1](#)/ ([MATA31H3](#), [MATA37H3](#))/ [MAT137Y5](#)/ [MAT157Y5](#)

Corequisite: [MAT237Y1](#)/ [MAT257Y1](#)/ [MAT257Y5](#); [MAT223H1](#)/ [MAT224H1](#)/ [MAT240H1](#)/ [MATA22H3](#)/ [MATA23H3](#)/ [MAT223H5](#)/ [MAT240H5](#)/ [MATB24H3](#)/ [MAT224H5](#)

Exclusion: [ECO227Y1](#), [STA237H1](#), [STA247H1](#), [MAT370H1](#), [MAT377H1](#), [STAB52H3](#), [STA256H5](#), [ECO227Y5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA261H1 - Probability and Statistics II

Hours: 36L/12T

A rigorous introduction to the theory of statistical inference and to statistical practice. Statistical models, parameters, and samples. Estimators for parameters, sampling distributions for estimators, and the properties of consistency, bias, and variance. The likelihood function and the maximum likelihood estimator. Hypothesis tests

and confidence regions. Examples illustrating statistical theory and its limitations. Introduction to the use of a computer environment for statistical analysis. (Note: [STA261H1](#) does not count as a distribution requirement course).

Prerequisite: [STA257H1](#)/ [STAB52H3](#)/ [STA256H5](#)

Corequisite: [MAT237Y1](#)/ [MAT257Y1](#)/ [MAT257Y5](#); [MAT223H1](#)/ [MAT224H1](#)/ [MAT240H1](#)/ [MATA22H3](#)/ [MATA23H3](#)/ [MAT223H5](#)/ [MAT240H5](#)/ [MATB24H3](#)/ [MAT224H5](#)

Exclusion: [ECO227Y1](#)/ [STA238H1](#)/ [STA248H1](#)/ [STAB57H3](#)/ [STA260H5](#)/ [ECO227Y5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

JSC270H1 - Data Science I

Hours: 24L/24P

This course is restricted to students in the Data Science Specialist program. Data exploration and preparation; data visualization and presentation; and computing with data will be introduced. Professional skills, such as oral and written communication, and ethical skills for data science will be introduced. Data science workflows will be integrated throughout the course. These topics will be explored through case studies and collaboration with researchers in other fields.

Prerequisite: [STA257H1](#), [CSC207H1](#)

Corequisite: [STA261H1](#), [MAT237Y1](#)/ [MAT257Y1](#), [CSC236H1](#)/ [CSC240H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA272H1 - Statistical Models for Data Science

Hours: 24L/12T

Key areas of data science modeling including question formulation, data collection and cleaning, visualization, statistical inference, predictive modeling, and decision making. Through a strong emphasis on data-centric computing, quantitative critical thinking, and exploratory data analysis, this class covers key principles and techniques of data science. These include algorithms for statistical models and machine learning methods including regression, classification, neural networks, and clustering; principles behind creating informative data visualizations; and statistical concepts of measurement error and prediction.

Prerequisite: [CSC108H1](#)/ [CSC110Y1](#)/ [CSC148H1](#), [STA220H1](#)/ [ECO220Y1](#)/ [ECO227Y1](#)/ [GGR270H1](#)/ [IRW220H1](#)/ [PSY201H1](#)/ [STA261H1](#)/ [STA238H1](#)

STA248H1/ STA288H1/ EEB225H1

Exclusion: Any 300+ level STA course, CSC311H1

Recommended Preparation: EEB125H1/ GGR274H1/ ENG286H1/ STA130H1

Breadth Requirements: The Physical and Mathematical Universes (5)

STA288H1 - Statistics and Scientific Inquiry in the Life Sciences

Hours: 36L/18P

Introduction to statistics and its connection to all stages of the scientific inquiry process. Issues around data collection, analysis and interpretation are emphasized to inform study design and critical assessment of published research. Statistical software is used to conduct descriptive and inferential statistics to address basic life sciences research questions.

Prerequisite: BIO230H1/ BIO255H1

Exclusion: STA220H1, PSY201H1, GGR270H1, ECO220Y1, ECO227Y1, SOC202H1, EEB225H1, HMB325H1, STA238H1, STA248H1, STA261H1, PCL376H1, STA215H5, STA220H5, STAB22H3

Breadth Requirements: The Physical and Mathematical Universes (5)

STA299H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

STA299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

STA302H1 - Methods of Data Analysis I

Hours: 36L

Introduction to data analysis with a focus on regression. Initial Examination of data. Correlation. Simple and multiple regression models using least squares. Inference for regression parameters, confidence and prediction intervals. Diagnostics and remedial measures. Interactions and dummy variables. Variable selection. Least squares estimation and inference for non-linear regression.

Prerequisite: STA238H1/ STA248H1/ STA255H1/ STA261H1/ ECO227Y1/ STAB57H3/ STA258H5/ STA260H5/ ECO227Y5/ CSC108H1/ CSC110Y1/ CSC120H1/ CSC148H1/ CSCA08H3/ CSCA20H3/ CSCA48H3/ CSC108H5/ CSC148H5/ MAT223H1/ MAT224H1/ MAT240H1/ MATA22H3/ MATA23H3/ MAT223H5/ MAT240H5/ MATB24H3/ MAT224H5

Exclusion: STAC67H3, STA302H5

Breadth Requirements: The Physical and Mathematical Universes (5)

STA303H1 - Methods of Data Analysis II

Hours: 36L

Analysis of variance for one-and two-way layouts, logistic regression, loglinear models, longitudinal data, introduction to time series.

Prerequisite: STA302H1/ STAC67H3/ STA302H5

Exclusion: STAC51H3

Breadth Requirements: The Physical and Mathematical Universes (5)

STA304H1 - Surveys, Sampling and Observational Data

Hours: 36L

Design of surveys, sources of bias, randomized response surveys. Techniques of sampling; stratification, clustering, unequal probability selection. Sampling inference, estimates of population mean and variances, ratio estimation. Observational data; correlation vs. causation, missing data, sources of bias.

Prerequisite: ECO227Y1/ STA255H1/ STA261H1/ STA248H1/ STA238H1/ STAB57H3/ STA258H5/ STA260H5/ ECO227Y5

Exclusion: STAC50H3, STAC53H3, STA304H5

Breadth Requirements: The Physical and Mathematical Universes (5)

STA305H1 - Design and Analysis of Experiments

Hours: 36L

Experiments vs observational studies, experimental units. Designs with one source of variation. Complete randomized designs and randomized block designs. Factorial designs. Inferences for contrasts and means. Model assumptions. Crossed and nested treatment factors, random effects models. Analysis of variance and covariance. Sample size calculations.

Prerequisite: STA302H1/ STAC67H3/ STA302H5

Exclusion: STAC50H3, STAC53H3, STA305H5

Breadth Requirements: The Physical and Mathematical Universes (5)

STA313H1 - Data Visualization

Hours: 24L/12P

An introduction to data visualization and the use of visual and interactive representations of data to support human cognition. This course covers visualization techniques and algorithms based on principles from graphic design, perceptual psychology, cognitive science, and human-computer interaction. Topics include: graphic design, interaction, perception and cognition, communication, and ethics. Computational tutorials involve design review, implementation, and testing of information visualizations.

Prerequisite: CSC108H1/ CSC110Y1/ CSC120H1/ CSC148H1; STA238H1/ STA248H1/ STA261H1/ ECO227Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

STA314H1 - Statistical Methods for Machine Learning I

Hours: 36L/12T

Statistical methods for supervised and unsupervised learning from data: training error, test error and cross-validation; classification, regression, and logistic regression; principal components analysis; stochastic gradient descent; decision trees and random forests; k-means clustering and nearest neighbour methods. Computational tutorials will support the efficient application of these methods.

Prerequisite: STA302H1/ STA302H5/ STAC67H3; CSC108H1/ CSC110Y1/ CSC120H1/ CSC148H1/ CSCA08H3/ CSCA48H3/ CSCA20H3/ CSC108H5/ CSC148H5; MAT223H1/ MAT224H1/ MAT240H1/

MATA22H3/ MATA23H3/ MAT223H5/ MAT240H5/ MATB24H3/ MAT224H5; MAT235Y1/ MAT237Y1/ MAT257Y1/ (MATB41H3, MATB42H3)/ (MAT232H5, MAT236H5)/ (MAT233H5, MAT236H5)

Exclusion: CSC411H1, CSC311H1, STA314H5, STA315H5, CSCC11H3, CSC411H5

Breadth Requirements: The Physical and Mathematical Universes (5)

STA347H1 - Probability

Hours: 36L

An overview of probability from a non-measure theoretic point of view. Random variables/vectors; independence, conditional expectation/probability and consequences. Various types of convergence leading to proofs of the major theorems in basic probability. An introduction to simple stochastic processes such as Poisson and branching processes.

Prerequisite: STA247H1(70%)/ STA255H1(70%)/ STA237H1(70%)/ STA257H1/ ECO227Y1/ STAB52H3/ STA256H5; MAT223H1/ MAT224H1/ MAT240H1/ MATA22H3/ MATA23H3/ MAT223H5/ MAT240H5/ MATB24H3/ MAT224H5; MAT235Y1/ MAT237Y1/ MAT257Y1/ (MATB41H3, MATB42H3)/ (MAT232H5, MAT236H5)/ (MAT233H5, MAT236H5) (Note: STA257H1, MAT223H1/ MAT240H1, MAT237Y1/ MAT257Y1 are very strongly recommended)

Exclusion: MAT370H1, MAT377H1, STAC62H3, STA348H5

Breadth Requirements: The Physical and Mathematical Universes (5)

STA355H1 - Theory of Statistical Practice

Hours: 24L/12P

STA355H1 provides a unifying structure for the methods taught in other courses, and will enable students to read methodological research articles or articles with a large methodological component. Topics covered include statistical models and distributions; fundamentals of inference: estimation, hypothesis testing, and significance levels; likelihood functions and likelihood-based inference; prior distributions and Bayesian inference.

Prerequisite: STA255H1 (73%)/ STA248H1 (73%)/ STA238H1 (73%)/ STA261H1 (60%)/ ECO227Y1 (60%)/ STAB57H3 (60%)/ STA260H5 (60%)/ ECO227Y5 (60%); MAT235Y1/ MAT237Y1/ MAT257Y1/ (MATB41H3, MATB42H3)/ (MAT232H5, MAT236H5)/ (MAT233H5, MAT236H5); MAT223H1/ MAT224H1/ MAT240H1/ MATA22H3/ MATA23H3/ MAT223H5/ MAT240H5/ MATB24H3/ MAT224H5

Exclusion: STAC58H3

Recommended Preparation: CSC108H1/ CSC120H1/ CSC148H1/ CSC110Y1/ CSC111H1

Breadth Requirements: The Physical and Mathematical Universes (5)

STA365H1 - Applied Bayesian Statistics

Hours: 36L

Bayesian inference has become an important applied technique and is especially valued to solve complex problems. This course first examines the basics of Bayesian inference. From there, this course looks at modern, computational methods and how to make inferences on complex data problems.

Prerequisite: STA302H1/ STAC67H3/ STA302H5

Breadth Requirements: The Physical and Mathematical Universes (5)

JSC370H1 - Data Science II

Hours: 24L/24P

This course is **restricted to** students in the Data Science Specialist program. Students will learn to identify and answer questions through the application of exploratory data analysis, data visualization, statistical methods or machine learning algorithms to complex data. Software development for data science and reproducible workflows. Communication of statistical information at various technical levels, ethical practice of data analysis and software development, and teamwork skills. Topics will be explored through case studies and collaboration with researchers in other fields.

Prerequisite: JSC270H1, STA261H1, MAT237Y1/ MAT257Y1, CSC263H1/ CSC265H1/ CSC263H5/ CSCB63H3, STA302H1, CSC343H1/ CSC343H5/ CCCC43H3

Corequisite: STA303H1/ STA305H1

Breadth Requirements: The Physical and Mathematical Universes (5)

STA398H0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

STA398Y0 - Research Excursions

An instructor-supervised group project in an off-campus setting. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-excursions-program>. Not eligible for CR/NCR option.

STA399H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

STA399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

STA410H1 - Statistical Computation

Hours: 36L

Programming in an interactive statistical environment. Generating random variates and evaluating statistical methods by simulation. Algorithms for linear models, maximum likelihood estimation, and Bayesian inference. Statistical algorithms such as the Kalman filter and the EM algorithm. Graphical display of data.

Prerequisite: STA302H1/ STAC67H3/ STA302H5; CSC110Y1/ CSC148H1/ CSCA48H3/ CSC148H5; MAT223H1/ MAT224H1/ MAT240H1/ MATA22H3/ MATA23H3/ MAT223H5/ MAT240H5/ MATB24H3/ MAT224H5

Breadth Requirements: The Physical and Mathematical Universes (5)

STA414H1 - Statistical Methods for Machine Learning II

Hours: 36L

Probabilistic foundations of supervised and unsupervised learning methods such as naive Bayes, mixture models, and logistic regression. Gradient-based fitting of composite models including neural nets. Exact inference, stochastic variational inference, and Marko chain Monte Carlo. Variational autoencoders and generative adversarial networks.

Prerequisite: STA314H1/ CSC411H1/ CSC311H1/ (STA314H5, STA315H5)/ CSCC11H3/ CSC411H5/ STA302H1/ STAC67H3/ STA302H5/ CSC108H1/ CSC110Y1/ CSC120H1/ CSC148H1/ CSCA08H3/ CSCA48H3/ CSCA20H3/ CSC108H5/ CSC148H5/ MAT235Y1/ MAT237Y1/ MAT257Y1/ (MATB41H3, MATB42H3)/ (MAT232H5, MAT236H5)/ (MAT233H5, MAT236H5); MAT223H1/ MAT224H1/ MAT240H1/ MATA22H3/ MATA23H3/ MAT223H5/ MAT240H5/ MATB24H3/ MAT224H5

Exclusion: CSC412H1, STAD68H3

Recommended Preparation: STA303H1

Breadth Requirements: The Physical and Mathematical Universes (5)

STA422H1 - Theory of Statistical Inference

Hours: 36L

This course examines current theory of statistical inference, particularly likelihood-based methods and Bayesian methods with an emphasis on resolving present conflicts; log-model expansion and asymptotics are primary tools.

Prerequisite: STA355H1

Breadth Requirements: The Physical and Mathematical Universes (5)

STA437H1 - Methods for Multivariate Data

Hours: 24L/12P

Practical techniques for the analysis of multivariate data; fundamental methods of data reduction with an introduction to underlying distribution theory; basic estimation and hypothesis testing for multivariate means and variances; regression coefficients; principal components and partial, multiple and canonical correlations; multivariate analysis of variance; profile analysis and curve fitting for repeated measurements; classification and the linear discriminant function.

Prerequisite: STA302H1/ STAC67H3/ STA302H5

Exclusion: STAD37H3, STA437H5

Recommended Preparation: MAT224H1/ MAT247H1

Breadth Requirements: The Physical and Mathematical Universes (5)

STA442H1 - Methods of Applied Statistics

Hours: 36L

Advanced topics in statistics and data analysis with emphasis on applications. Diagnostics and residuals in linear models, introduction to generalized linear models, graphical methods, additional topics such as random effects models, designed experiments, model selection, analysis of censored data, introduced as needed in the context of case studies.

Prerequisite: STA303H1/ (STAC67H3, STAC51H3); CSC108H1/ CSC110Y1/ CSC120H1/ CSC148H1/ CSCA08H3/ CSCA48H3/ CSCA20H3/ CSC108H5/ CSC148H5

Exclusion: STA441H5

Recommended Preparation: At least an additional 1.0 credit in STA courses at the 300 or 400 level

Breadth Requirements: The Physical and Mathematical Universes (5)

STA447H1 - Stochastic Processes

Hours: 36L

Discrete and continuous time processes with an emphasis on Markov, Gaussian and renewal processes. Martingales and further limit theorems. A variety of applications taken from some of the following areas are discussed in the context of stochastic modeling: Information Theory, Quantum Mechanics, Statistical Analyses of Stochastic Processes, Population Growth Models, Reliability, Queuing Models, Stochastic Calculus, Simulation (Monte Carlo Methods).

Prerequisite: STA347H1/ MAT377H1/ STAC62H3

Exclusion: STA348H5, STAC63H5

Breadth Requirements: The Physical and Mathematical Universes (5)

STA450H1 - Topics in Statistics

Hours: 36L

Topics of current research interest are covered. Topics vary from year to year. As the necessary academic preparation for this course may vary from year to year, there may be additional prerequisites required, such as specific courses or an application to enrol. Students should contact the department at

ug.statistics@utoronto.ca for information on this course, and enrolment in this course, for a given year.

Prerequisite: 9.0 credits

Breadth Requirements: The Physical and Mathematical Universes (5)

STA452H1 - Mathematical Statistics I

Hours: 36L

Statistical theory and its applications at an advanced mathematical level. Topics include probability and distribution theory as it specifically pertains to the statistical analysis of data. Linear models and the geometry of data, least squares and the connection to conditional expectation. The basic concept of inference and the likelihood function.

Prerequisite: [MAT223H1](#)/ [MAT224H1](#)/ [MAT240H1](#)/ [MATA22H3](#)/ [MATA23H3](#)/ [MAT223H5](#)/ [MAT240H5](#)/ [MATB24H3](#)/ [MAT224H5](#); [MAT235Y1](#)/ [MAT237Y1](#)/ [MAT257Y1](#)/ ([MATB41H3](#), [MATB42H3](#))/ ([MAT232H5](#), [MAT236H5](#))/ ([MAT233H5](#), [MAT236H5](#)); ([STA257H1](#), [STA355H1](#))/ [STA347H1](#). (Note: [MAT237Y1](#)/ [MAT257Y1](#); ([MAT223H1](#), [MAT224H1](#))/ [MAT240H1](#) very strongly recommended.)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA453H1 - Mathematical Statistics II

Hours: 36L

Continuation of [STA452H1](#): statistical theory and its applications at an advanced mathematical level. Topics include classical estimation, theory with methods based on the likelihood function and the likelihood statistics. Testing hypothesis and the evaluation of confidence from both a Bayesian and frequentist point of view.

Prerequisite: [STA452H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA457H1 - Time Series Analysis

Hours: 36L

An overview of methods and problems in the analysis of time series data. Topics include: descriptive methods, filtering and smoothing time series, theory of stationary processes, identification and estimation of time series models, forecasting, seasonal adjustment, spectral estimation, bivariate time series models.

Prerequisite: [STA302H1](#)/ [STAC67H3](#)/ [STA302H5](#); [MAT235Y1](#)/ [MAT237Y1](#)/ [MAT257Y1](#)/ ([MATB41H3](#), [MATB42H3](#))/ ([MAT232H5](#), [MAT236H5](#))/ ([MAT233H5](#), [MAT236H5](#))

Exclusion: [STAD57H3](#), [STA457H5](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA465H1 - Spatial Data Analysis

Hours: 36L

Data acquisition in the environmental, physical, and health sciences are increasingly spatial, and novel in the sense that specialized methods are required for analysis. This course will cover different types of spatial and spatiotemporal data and their analytic methods. Students will learn a variety of advanced techniques for analyzing geostatistical, areal, and point referenced data. Focus will be placed on visualizing spatial data, choosing the correct method for a specific research question, and communicating analytic results clearly and effectively.

Prerequisite: [STA302H1](#)/ [STAC67H3](#)/ [STA302H5](#), [STA303H1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

JSC470H1 - Data Science III

Hours: 24L/24P

This course is **restricted to** students in the Data Science Specialist program. Research topics and applications of data science methods will be explored through case studies and collaboration with researchers in other fields. Data analysis, visualization, and communication of statistical information at various technical levels, ethical practice of data analysis and software development, and teamwork skills.

Prerequisite: [JSC370H1](#), [STA314H1](#)/ [CSC411H1](#)/ [CSC311H1](#), [STA303H1](#)/ [STA305H1](#)

Exclusion: [STA490Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA475H1 - Survival Analysis

Hours: 36L

An overview of theory and methods in the analysis of survival data. Topics include survival distributions and their applications, parametric and non-parametric methods, proportional hazards regression, and extensions to competing risks and multistate modelling.

Corequisite: STA303H1

Breadth Requirements: The Physical and Mathematical Universes (5)

STA480H1 - Fundamentals of Statistical Genetics

Hours: 36L/9P

Statistical analysis of genetic data is an important emerging research area with direct impact on population health. This course provides an introduction to the concepts and fundamentals of statistical genetics, including current research directions. The course includes lectures and hands-on experience with R programming and state-of-the-art statistical genetics software packages.

Prerequisite: STA303H1

Breadth Requirements: The Physical and Mathematical Universes (5)

STA490Y1 - Statistical Consultation, Communication, and Collaboration

Hours: 48L/48P

Through case studies and collaboration with researchers in other disciplines, students develop skills in the collaborative practice of Statistics. Focus is on pragmatic solutions to practical issues including study design, dealing with common complications in data analysis, and ethical practice, with particular emphasis on written communication. An application must be completed during the priority enrolment period the summer before the course is offered. Priority will be given to students who are completing all requirements of the Specialist in Statistical Science: Methods and Practice or the Applied Statistics Specialist that academic year. Space permitting, students in the Statistics Specialist, the Specialist in Statistical Science: Theory and Methods, the Data Science Specialist, or the Statistics Major will be considered for enrolment in the order in which they applied.

Prerequisite: STA303H1, STA304H1/ STA305H1

Corequisite: STA355H1; one additional 400-level STA course

Breadth Requirements: The Physical and Mathematical Universes (5)

STA492H1 - Seminar in Statistical Science

Hours: 36S

This course is intended for students completing the Statistical Science: Theory and Methods Specialist program. Novel influential ideas and current research topics in statistics will be explored through readings and discussion. Content will generally vary from semester to semester. Student presentations and written reports will be required.

Prerequisite: STA355H1 (Permission of instructor. An application is required to be considered for this course. Information about this special enrolment course as well as a link to the online application form is available on the Department of Statistical Sciences website. Priority will be given to students who complete the application during the priority enrolment period the summer before the course is offered and who are completing all requirements of the Specialist in Statistical Science: Theory and Methods or the Statistics Specialist that academic year.)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA496H1 - Readings in Statistics

Independent study under the direction of a Department of Statistical Sciences faculty member. There are a limited number of spaces in this course, and capacity varies from year to year based on the availability of faculty supervisors. Enrolment is subject to Department of Statistical Sciences and faculty supervisor approval. Students interested in this course should contact the department at ug.statistics@utoronto.ca for information on how to apply for enrolment in this course in a given year. Not eligible for CR/NCR option.

Prerequisite: At least 1.0 STA credit at the 300+ level with a minimum grade of 80% in each course

Exclusion: STA497H1/ STA498Y1/ STA499Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

STA497H1 - Readings in Statistics

Independent study under the direction of a Department of Statistical Sciences faculty member. There are a limited number of spaces in this course, and capacity varies from year to year based on the availability of faculty supervisors. Enrolment is subject to Department of Statistical Sciences and faculty supervisor approval. Students interested in this course should contact the department at ug.statistics@utoronto.ca for information on how to apply for enrolment in this course in a given year. Not eligible for CR/NCR option.

Prerequisite: At least 1.0 STA credit at the 300+ level with a minimum grade of 80% in each course

Exclusion: STA496H1/ STA498Y1/ STA499Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

STA498Y1 - Readings in Statistics

Independent study under the direction of a Department of Statistical Sciences faculty member. There are a limited number of spaces in this course, and capacity varies from year to year based on the availability of faculty supervisors. Enrolment is subject to Department of Statistical Sciences and faculty supervisor approval. Students interested in this course should contact the department at ug.statistics@utoronto.ca for information on how to apply for enrolment in this course in a given year. Not eligible for CR/NCR option.

Prerequisite: At least 1.0 STA credit at the 300+ level with a minimum grade of 80% in each course

Exclusion: [STA496H1](#)/ [STA497H1](#)/ [STA499Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

STA499Y1 - Readings in Statistics

Independent study under the direction of a Department of Statistical Sciences faculty member. There are a limited number of spaces in this course, and capacity varies from year to year based on the availability of faculty supervisors. Enrolment is subject to Department of Statistical Sciences and faculty supervisor approval. Students interested in this course should contact the department at ug.statistics@utoronto.ca for information on how to apply for enrolment in this course in a given year. Not eligible for CR/NCR option.

Prerequisite: At least 1.0 STA credit at the 300+ level with a minimum grade of 80% in each course

Exclusion: [STA496H1](#)/ [STA497H1](#)/ [STA498Y1](#)

Breadth Requirements: The Physical and Mathematical Universes (5)

Trinity College

Faculty List

Professors

C. Brittain, PhD (Dean of Divinity and Margaret E. Fleck Chair in Anglican Studies)
 M. Moran, LL.B, LL.M, SJD (Provost and Vice-Chancellor)
 M. Ratcliffe, BSc, PhD (Dean of Arts and Vice-Provost)

Assistant Professors

J. Duncan, MA, PhD (Director, Ethics, Society, & Law Program)
 C. Ewing, PhD
 C. Ewing, PhD
 J. Fitzgibbon, PhD (Associate Director, Trinity One Program & Acting Director, International Relations Program)
 M.J. Kessler, PhD (Director, Trinity One Program)
 T. Sayle, PhD (Director, International Relations Program)
 N. Spiegelhaar, PhD (Associate Director Sustainability Initiative)

Adjunct Professor

J. Leitch, LL.M, PhD (Associate Director, Ethics, Society & Law)

Visiting Professors and Special Lecturers

D. Livermore, PhD (Pearson Sabia Distinguished Visitor)
 R. McCarney, LL.B, DLS (International Relations Program, James Coutts Distinguished Visitor)

Introduction

Trinity College offers Trinity One, a set of first-year courses, an independent studies program, and three interdisciplinary programs: Ethics, Society, and Law; Immunology; International Relations. The Major Program in Ethics, Society, and Law assembles courses offered by a variety of Departments and Colleges, including History, Philosophy, Political Science, Religion, Sociology, Woodsworth College and Trinity College. The Specialist and Major Programs in Immunology are assembled from offerings by the Departments of Biochemistry, Immunology, Molecular Genetics. The International Relations Program encompasses courses offered by the Departments of History, Political Science, Economics and Trinity College.

The Margaret MacMillan Trinity One Program

Trinity One provides first-year students with the opportunity to explore together significant issues and ideas pertaining to the conduct of human life and world affairs. Trinity One has six streams, each linked to a prominent aspect of the College's intellectual identity: Policy, Philosophy, & Economics; Ethics, Society, & Law; International Relations; Medicine & Global Health; Biomedical Health; and Environment & Sustainability. Each stream includes two seminar courses limited to 25 students. These courses foster small-group discussion and emphasize the development of critical-thinking, oral-presentation, writing and research skills. Co-curricular events enable students in the streams of Trinity One to hear guest speakers and to engage in informal conversation with one another and with their professors. Please see the Trinity One [webpages](#).

Ethics, Society, and Law

The Ethics, Society and Law program allows undergraduates to explore some of the most crucial questions facing contemporary society, and to do so by means of an explicitly interdisciplinary approach. The humanities, social sciences and natural sciences all provide useful lenses for study and distinctive skill sets. Students are required to cover core areas in each of the streams; they additionally select their own areas of focus from optional courses in fields like philosophy, religion, anthropology, women and gender studies, economics, geography, political science, sociology and criminology. Engaging across disciplines, E, S and L majors acquire a strong critical preparation for well-informed, effective analysis and action, which will serve them professionally, locally and as members of the global community. Please see the ES&L [webpages](#).

International Relations

The study of international relations dates back to antiquity and remains one of the most vital disciplines in the academic community. Its purpose is to explore the enduring questions of the origins of war and the maintenance of peace, prosperity, sustainability and well-being, the nature and exercise of power within the international system, and the changing character of the participants and process and outcomes in international decision-making.

Drawing on the strengths of faculty members in History, Political Science, Economics and related disciplines, the International Relations program offers a structured and interdisciplinary education. The program provides students with knowledge of the historical and contemporary dimensions of the international system while introducing them to the methodologies employed in historical, political, economic and social scientific analysis.

The International Relations Specialist and Major are limited enrolment programs. For more information, please consult the International Relations Program [webpages](#).

Immunology Studies

For more information, please see the entry under [Immunology](#) or the [Immunology departmental website](#).

Independent Studies

The Trinity College Independent Studies Program is open to students of all colleges. Only full-time students are eligible to apply. The program allows you to undertake extensive research into a topic that interests you, and is an especially suitable way of doing interdisciplinary work on subjects that are not directly part of the present university curriculum. Enrolment is open until the end of the first week of the semester in which the course will begin.

Participation in the program is restricted to students who have completed at least 10.0 credits and have maintained a CGPA of at least 3.50. Students applying to the Trinity Program must already have the agreement of a full-time faculty member of the University to act as supervisor for either a half course or a full year Independent Study course. The maximum number of independent studies half courses for which a student may receive credit is one, and the maximum number of independent studies full course equivalents for which a student may receive credit is two, typically one credit in third year and one credit in fourth year. Permission to undertake Trinity independent studies projects for the equivalent of two full courses will normally be granted only to students with a cumulative GPA of at least 3.70. Your proposal must be approved by your supervisor and accepted by the director of the program.

Course numbers are as follows: Students enrolling for the first time register for one or more of [TRN300H1](#), [TRN301Y1](#), [TRN302Y1](#) (third year), or for one or more of [TRN400H1](#), [TRN404Y1](#), [TRN405Y1](#) (fourth year), as appropriate. Those enrolling for a second time register in one of [TRN400H1](#), [TRN404Y1](#), and [TRN405Y1](#), as appropriate. Enrolment in third year TRN independent studies courses is not a prerequisite for fourth year TRN independent studies courses but students who initially enrol in fourth year TRN independent studies courses may not subsequently enrol in third year TRN independent studies courses.

Students are enrolled in TRN independent studies courses by the Dean of Arts' office at Trinity College. Students should complete the enrolment approval process in enough time to be enrolled no later than the end of the first week of classes in the relevant term.

Please note that a TRN independent studies course is not a "directed reading" course. The expectation is that students should do original research and provide a report of this research as part of their evaluation.

Students are required to identify a second reader for their final reports, in addition to their direct supervisor, whose evaluation of the paper will form part of their final grade for the course. The second reader should also be a faculty member.

Students are required to file a graded progress report with the director of the program no later than two weeks before the last date for dropping the course without academic penalty. All work including final reports must be submitted on or before the last day of classes. The supervisor and second reader will then grade the report and copies of the final essay or report, one graded by the supervisor and one independently graded by the second reader must be emailed to the Director within one week of the last day of classes.

For more information, please see the Independent Studies [webpage](#) or consult the director.

Trinity College Programs

Ethics, Society, and Law Major (Arts Program) - ASMAJ1618

The Ethics, Society and Law program allows undergraduates to explore some of the most crucial questions facing contemporary society, and to do so by means of an explicitly interdisciplinary approach. The humanities, social sciences and natural sciences all provide useful lenses for study and distinctive skill sets. Students are required to cover core areas in each of the streams; they additionally select their own areas of focus from optional courses in fields like philosophy, religion, anthropology, women and gender studies, economics, geography, political science, sociology and criminology. Engaging across disciplines, E, S and L majors acquire a strong critical preparation for well-informed, effective analysis and action, which will serve them professionally, locally and as a members of the global community. Please see the ES&L webpages: <http://www.trinity.utoronto.ca/current/programs-courses/esl/esl.html>

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

For students who have completed 4.0 to 8.5 credits:

- 3.0 credits from BR=2 and/or BR=3 and/or TRN170Y1

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 77% will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program.

For students who have completed 9.0 credits:

- A minimum grade average of 77% in 3.0 credits that count toward the program, including 1.0 credit from: ETH201H1, ETH210H1, ETH220H1, ETH230H1, PHL265H1, PHL271H1, PHL275H1, and POL200Y1.

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 77% will not be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program.

Completion Requirements:

(7.0 credits)

1. First year: While no specific courses are required in first year, course selection should take into account the program's admission requirements above, as well as the prerequisites for 200+ level courses students plan to take to complete the program.

2. Second year: PHL271H1, TRN203H1, and TRN204H1 are required courses that students are recommended to take in second year (their first year of registration in the program).

3. Third year: TRN303H1, TRN312H1

4. Fourth year: TRN412H1.

5. 1.0 credit from ETH201H1, ETH210H1, ETH220H1, ETH230H1, ETH350H1, ETH401H1, PHL265H1, PHL275H1, POL200Y1, to be taken in any year of registration in the program.

6. 3.0 credits from Groups A-D, including at least a 0.5 credit from each of Groups A-C and at least 1.5 credits at the 300+ level. Courses taken in fulfillment of requirement 5 above may not be counted toward the Group courses here.

Group A (Ethics)

ETH201H1, ETH210H1, ETH220H1, ETH230H1, ETH350H1, ETH401H1, PHL273H1, PHL275H1, PHL281H1, PHL295H1, PHL337H1, PHL341H1, PHL373H1, PHL375H1, PHL378H1, PHL380H1, PHL381H1, PHL382H1, PHL383H1, PHL384H1, PHL394H1, PHL407H1, RLG339H1

Group B (Society)

AFR351Y1, AFR352H1, AFR453Y1, ANT204H1, CAR225H1, CAR226H1, CAR324H1, CSC300H1, CSE340H1, CSE341H1, ECO313H1, ECO332H1, ECO336H1, ENV221H1, ENV222H1, ENV347H1, GGR416H1, HIS332H1, HPS324H1, INS261H1, INS353H1, INS354H1, INS360Y1, INS407H1, JGE331H1, JPI201H1, LAS200H1, LAS201H1, LAS320H1, LAS350H1, LAS370H1, PHL265H1, PHL365H1, POL200Y1, POL214Y1, POL214H1, POL320H1, POL321H1, POL412H1, POL432H1, PSY311H1, PSY321H1, SOC208H1, SOC212H1, SOC220H1, SOC265H1, SOC313H1, SOC330H1, SOC360H1, SOC367H1, CRI205H1, CRI210H1, CRI300H1, CRI335H1, CRI340H1, CRI380H1, CRI425H1, WGS373H1

Group C (Law)

CLA336H1, CRI225H1, CRI364H1, CRI365H1, CRI422H1, ECO320H1, ENV422H1, MST361H1, NMC385H1, NMC484H1, PHL370H1, PHL416H1, POL337H1, POL340H1, POL341H1, TRN304H1, TRN304Y1, TRN305Y1, TRN305H1, TRN425Y1, WGS365H1

Group D (Further Courses)

AFR351Y1, INS201Y1, INS205H1, RLG309H1, TRN200Y1, TRN320H1, TRN321H1, TRN406H1, TRN407Y1, and with permission of the director: TRN300H1, TRN301Y1, TRN302Y1, TRN400H1, TRN404Y1, TRN405Y1, TRN377Y1, TRN477H1, 1.0 credit from TRN160Y1, TRN161Y1, TRN171Y1, TRN172Y1.

N.B. (1) The above CRI courses are available only to students enrolled in the double major program Ethics, Society, and Law/Criminology. (2) Access to courses in the Ethics, Society, and Law program is not guaranteed; students must check prerequisites.

Note: Effective Fall 2021, courses associated with St. Michael's College's Mediaeval Studies program will have the new "MST" designator.

International Relations Specialist (Arts Program) - ASSPE1469

The study of international relations dates back to antiquity and remains one of the most vital disciplines in the

academic community. Its purpose is to explore the enduring questions of the origins of war and the maintenance of peace, the nature and exercise of power within an international system, and the changing character of the participants in international decision-making.

Drawing on the strengths of faculty members in History, Economics, and Political Science, the International Relations Specialist Program offers a structured and interdisciplinary education. The program provides students with knowledge of the historical and contemporary dimensions of the international system while introducing them to the methodologies employed in historical, political and economic analysis.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- (ECO101H1 and ECO102H1) with a minimum grade of 63% in each, or ECO105Y1 with a minimum grade of 80%
- 2.0 credits from GGR112H1, HIS102Y1, HIS103Y1, MUN101H1, MUN102H1, MUN105Y1, POL101H1, POL106H1, POL107H1, POL109H1, TRN150Y1, TRN151Y1, TRN152Y1, TRN160Y1, TRN162Y1, VIC181H1, VIC183H1, VIC184H1, VIC185H1, with a minimum grade of 70% in each course.

To ensure that students admitted to the program will be successful, applicants with a final grade lower than the minimum grades stated above will not be considered for admission. Please note that obtaining these minimum final grades does not guarantee admission to the program; admission will be based on the average of the required courses.

Note:

Completing ECO105Y1 limits future enrolment options in ECO courses. First-year MAT courses are a prerequisite for many optional ECO courses in the IR Program Requirements listed below. Students are strongly advised to enrol in MAT133Y1/ (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1 if they wish to pursue ECO electives.

Completion Requirements:

(13.0 credits)

Consult the Office of the International Relations Program, room 310N, Munk School of Global Affairs, 416-946-8950.

Year 1 (3.0 credits):

1. ECO101H1 and ECO102H1, OR ECO105Y1
2. 2.0 credits from GGR112H1, HIS102Y1, HIS103Y1, MUN101H1, MUN102H1, MUN105Y1, POL101H1, POL106H1, POL107H1, POL109H1, TRN150Y1, TRN151Y1, TRN152Y1, TRN160Y1, TRN162Y1, VIC181H1, VIC183H1, VIC184H1, VIC185H1

Year 2 (2.5 credits):

1. ECO231H1 and ECO232H1, OR ECO200Y1/ ECO202Y1/ ECO206Y1/ ECO208Y1. Students should note that completing (ECO231H1 and ECO232H1) limits future enrolment options in ECO courses.
2. POL208H1
3. TRN250Y1

Year 3 (4.0 credits):

1. TRN350H1
2. 1.0 credit from: ECO320H1/ ECO341H1/ ECO342H1/ ECO362H1/ ECO364H1/ ECO365H1/ ECO368H1
3. 1.0 credit from: AFR353H1/ CAS310H1/ CAS320H1/ EAS324H1/ EAS345Y1/ EAS357H1/ EAS372H1/ EAS373H1/ EAS374H1/ EAS375H1/ HIS300H1/ HIS311H1/ HIS312H1/ HIS315H1/ HIS316H1/ HIS317H1/ HIS319H1/ HIS325H1/ HIS328H1/ HIS330H1/ HIS334H1/ HIS338H1/ HIS339H1/ HIS340H1/ HIS341Y1/ HIS342H1/ HIS343H1/ HIS344H1/ HIS347H1/ HIS349H1/ HIS351H1/ HIS353Y1/ HIS355H1/ HIS356H1/ HIS359H1/ HIS361H1/ HIS364H1/ HIS370H1/ HIS371H1/ HIS376H1/ HIS377H1/ HIS378H1/ HIS379H1/ HIS382H1/ HIS384H1/ HIS385H1/ HIS386H1/ HIS388H1/ HIS397H1/ JHA384H1/ JHA394H1/ NMC355H1/ NMC372H1/ NMC373H1/ RLG309H1 or with permission of the Director: HIS304H1/ HIS326H1/ HIS348H1/ HIS372H1/ HIS389H1/ HIS389Y1/ TRN307H1/ TRN308H1/ TRN377Y1
4. 1.0 credit from: AFR353H1/ AFR354H1/ AFR359H1/ CAS310H1/ CAS320H1/ ECO324H1/ ECO341H1/ ECO342H1/ ECO362H1/ ECO364H1/ ECO365H1/ ECO367H1/ ECO368H1/ GGR314H1/ GGR320H1/ GGR326H1/ GGR329H1/ GGR338H1/ GGR341H1/ GGR342H1/ GGR343H1/ GGR344H1/ JPA331H1/ JPA376Y0/ NMC378H1/ POL301H1/ POL302H1/ POL305H1/ POL307H1/ POL309H1/ POL312H1/ POL313H1/ POL324H1/ POL325H1/ POL326H1/ POL327H1/ POL328H1/ POL329H1/ POL340H1/ POL341H1/ POL347H1/ POL348H1/ POL349H1/ POL350H1/ POL351H1/ POL358H1/ POL359H1/ POL360H1/ POL361H1/ POL362H1/ POL377H1/ POL378H1/ POL380H1/ POL384H1/ POL386H1/ WGS340H1 or with

permission of the Director: TRN307H1/
TRN308H1/ TRN377Y1

5. 0.5 credit from:
any of the above from Year 3 Req. 2-4 not
previously counted or with permission of the
Director: ECO351H1/ TRN307H1/ TRN308H1/
TRN377Y1

Note: Those students choosing to add a Focus should be guided in their selection by the courses listed in their Focus group.

Year 4 (3.5 credits)

1. 1.0 credit from: (TRN409H1, TRN410H1/
TRN411Y1/ TRN419Y1/ TRN421Y1
2. 2.5 additional credits from:
AFR455H1/ ECO403H1/ ECO419H1/ ECO429H1/
ECO430Y1/ ECO431H1/ ECO459H1/
ECO465H1/ GGR418H1/ GGR419H1/
GGR430H1/ GLA2050H1/ HIS401H1/ HIS405Y1/
HIS411H1/ HIS415Y1/ HIS416H1/ HIS417H1/
HIS439H1/ HIS445H1/ HIS446H1/ HIS451H1/
HIS457H1/ HIS465H1/ HIS470H1/ HIS479H1/
HIS483H1/ HIS487H1/ HIS492H1/ HIS493H1/
HIS494H1/ HIS498H1/ POL410H1/ POL412H1/
POL413H1/ POL417H1/ POL418H1/ POL425H1/
POL435H1/ POL441H1/ POL442H1/ POL445H1/
POL456H1/ POL458H1/ POL459H1/ POL466H1/
POL467H1/ POL469H1/ POL472H1/ POL477H1/
POL486H1/ POL487H1/ TRN409H1/ TRN410H1/
VIC476H1

Notes:

- Those students choosing to add a Focus should be guided in their selection by the courses listed in their Focus group.

Focus in Canadian Foreign & Security Relations (Specialist) - ASFOC1469B

Enrolment Requirements:

Enrolment in the International Relations Specialist is required for entry into this Focus.

Enrolment in this Focus is recommended after second year to guide choice of courses in the higher years. Please note normal course prerequisites will apply to all courses in the Focus.

Completion Requirements:

(2.5 credits)

1. HIS311H1
2. 2.0 credits chosen from the following list:
HIS312H1, HIS356H1, POL312H1, POL313H1,
HIS405Y1, HIS430H1, POL467H1, TRN409H1
(Canadian Defense Policy since the end of the Cold War), TRN409H1 (Nuclear Weapons and International Politics), TRN410H1, TRN419Y1,
VIC476H1

Notes:

- Focus courses meet the basic IRP inclusion standard of substantially and directly addressing relations between and among countries at the state or society level.
- Students can request substitutions from the IRP Director
- Not all courses may be available at all times without scheduling conflicts.

Focus in International Economy (Specialist) - ASFOC1469C

Enrolment Requirements:

Enrolment in the International Relations Specialist is required for entry into this Focus.

Enrolment in this Focus is recommended after second year to guide choice of courses in the higher years. Please note normal course prerequisites will apply to all courses in the Focus.

Completion Requirements:

(2.5 credits)

1. ECO341H1
2. ECO342H1
3. 1.5 credits chosen from the following list:
ECO362H1, ECO364H1, ECO365H1,
ECO368H1, GGR326H1, POL361H1, POL362H1,
GGR344H1, ECO403H1, ECO419H1,
ECO459H1, ECO465H1, GGR418H1,
GGR430H1, HIS417H1, POL435H1, POL477H1

Notes:

- Focus courses meet the basic IRP inclusion standard of substantially and directly addressing relations between and among countries at the state or society level.
- Students can request substitutions from the IRP Director
- Not all courses may be available at all times without scheduling conflicts.

Focus in International Law & Human Rights (Specialist) - ASFOC1469E

Enrolment Requirements:

Enrolment in the International Relations Specialist is required for entry into this Focus.

Enrolment in this Focus is recommended after second year to guide choice of courses in the higher years. Please note normal course prerequisites will apply to all courses in the Focus.

Completion Requirements:

(2.5 credits)

1. POL340H1 and POL341H1
2. 1.5 credits chosen from the following list:
ECO320H1, HIS338H1, HIS361H1, HIS397H1,
POL324H1, GGR419H1, HIS411H1, HIS465H1,
HIS470H1, HIS487H1, HIS493H1, POL412H1,
POL456H1, POL457Y1, POL469H1, TRN421Y1

Notes:

- Focus courses meet the basic IRP inclusion standard of substantially and directly addressing relations between and among countries at the state or society level.
- Students can request substitutions from the IRP Director
- Not all courses may be available at all times without scheduling conflicts.

Focus in Transnational Exchanges (Specialist) - ASFOC1469G

Enrolment Requirements:

Enrolment in the International Relations Specialist is required for entry into this Focus.

Enrolment in this Focus is recommended after second year to guide choice of courses in the higher years. Please note normal course prerequisites will apply to all courses in the Focus.

Completion Requirements:

2.5 credits from the following list:
ECO365H1, ECO368H1, HIS341Y1, HIS359H1,

HIS415Y1, HIS439H1, HIS494H1, JHA394H1,
GGR324H1, GGR344H1, POL456H1, POL445H1,
POL472H1, TRN409H1 (Nuclear Weapons and International Politics), TRN410H1

Notes:

- Focus courses meet the basic IRP inclusion standard of substantially and directly addressing relations between and among countries at the state or society level.
- Students can request substitutions from the IRP Director
- Not all courses may be available at all times without scheduling conflicts.

International Relations Major (Arts Program) - ASMAJ1469

The study of international relations dates back to antiquity and remains one of the most vital disciplines in the academic community. Its purpose is to explore the enduring questions of the origins of war and the maintenance of peace, the nature and exercise of power within an international system, and the changing character of the participants in international decision-making.

Drawing on the strengths of faculty members in History, Economics, and Political Science, the International Relations Specialist Program offers a structured and interdisciplinary education. The program provides students with knowledge of the historical and contemporary dimensions of the international system while introducing them to the methodologies employed in historical, political and economic analysis.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- (ECO101H1 and ECO102H1) with a minimum grade of 63% in each, or ECO105Y1 with a minimum grade of 80%
- 1.0 credit from GGR112H1, HIS102Y1, HIS103Y1, MUN101H1, MUN102H1, MUN105Y1, POL101H1, POL106H1, POL107H1, POL109H1, TRN150Y1, TRN151Y1, TRN152Y1, TRN160Y1, TRN162Y1, VIC181H1, VIC183H1, VIC184H1, VIC185H1, with a minimum grade of 70% in each course.

To ensure that students admitted to the program will be successful, applicants with a final grade lower than the minimum grades stated above will not be considered for admission. Please note that obtaining these minimum final grades does not guarantee admission to the program; admission will be based on the average of the required courses.

Note:

Completing ECO105Y1 limits future enrolment options in ECO courses. First-year MAT courses are a prerequisite for many optional ECO courses in the IR Program Requirements listed below. Students are strongly advised to enrol in MAT133Y1/ (MAT135H1 and MAT136H1)/ MAT137Y1/ MAT157Y1 if they wish to pursue ECO electives.

Completion Requirements:

(7.5 credits)

Year 1 (2.0 credits):

1. ECO101H1 and ECO102H1, OR ECO105Y1
2. 1.0 credit from GGR112H1, HIS102Y1, HIS103Y1, MUN101H1, MUN102H1, MUN105Y1, POL101H1, POL106H1, POL107H1, POL109H1, TRN150Y1, TRN151Y1, TRN152Y1, TRN160Y1, TRN162Y1, VIC181H1, VIC183H1, VIC184H1, VIC185H1

Year 2 (2.5 credits):

1. ECO231H1 and ECO232H1, OR ECO200Y1/ ECO202Y1/ ECO206Y1/ ECO208Y1. Students should note that completing (ECO231H1 and ECO232H1) limits future enrolment options in ECO courses.
2. POL208H1
3. TRN250Y1

Year 3 (2.5 credits):

1. TRN350H1
2. 1.0 credit from: AFR353H1/ CAS310H1/ CAS320H1/ EAS324H1/ EAS345Y1/ EAS357H1/ EAS372H1/ EAS373H1/ EAS374H1/ EAS375H1/ HIS300H1/ HIS311H1/ HIS312H1/ HIS315H1/ HIS316H1/ HIS317H1/ HIS319H1/ HIS325H1/ HIS328H1/ HIS330H1/ HIS334H1/ HIS338H1/ HIS339H1/ HIS340H1/ HIS341Y1/ HIS342H1/ HIS343H1/ HIS344H1/ HIS347H1/ HIS349H1/ HIS351H1/ HIS353Y1/ HIS355H1/ HIS356H1/ HIS359H1/ HIS361H1/ HIS364H1/ HIS370H1/ HIS371H1/ HIS376H1/ HIS377H1/ HIS378H1/ HIS379H1/ HIS382H1/ HIS384H1/ HIS385H1/ HIS386H1/ HIS388H1/ HIS397H1/ JHA384H1/ JHA394H1/ NMC355H1/ NMC372H1/ NMC373H1/ RLG309H1 or with permission of the Director: HIS304H1/ HIS326H1/ HIS348H1

HIS372H1/ HIS389H1/ HIS389Y1/ TRN307H1/ TRN308H1/ TRN377Y1

3. 1.0 credit from: AFR353H1/ AFR354H1/ AFR359H1/ CAS310H1/ CAS320H1/ ECO324H1/ ECO341H1/ ECO342H1/ ECO362H1/ ECO364H1/ ECO365H1/ ECO367H1/ ECO368H1/ GGR314H1/ GGR320H1/ GGR326H1/ GGR329H1/ GGR338H1/ GGR341H1/ GGR342H1/ GGR343H1/ GGR344H1/ JPA331H1/ JPA376Y0/ NMC378H1/ POL301H1/ POL302H1/ POL305H1/ POL307H1/ POL309H1/ POL312H1/ POL313H1/ POL324H1/ POL325H1/ POL326H1/ POL327H1/ POL328H1/ POL329H1/ POL340H1/ POL341H1/ POL347H1/ POL348H1/ POL349H1/ POL350H1/ POL351H1/ POL358H1/ POL359H1/ POL360H1/ POL361H1/ POL362H1/ POL377H1/ POL378H1/ POL380H1/ POL384H1/ POL386H1/ WGS340H1 or with permission of the Director: TRN307H1/ TRN308H1/ TRN377Y1

Year 4 (0.5 credit)

TRN409H1/ TRN410H1

Notes:

- Those students choosing to add a Focus should be guided in their selection of courses at the third and fourth year level by the courses listed in the specific Focus group they choose.

Focus in Canadian Foreign & Security Relations (Major) - ASFOC1469A

Enrolment Requirements:

Enrolment in the International Relations Major is required for entry into the Focus.

Enrolment in this Focus is recommended after second year to guide choice of courses in the higher years. Please note normal course prerequisites will apply to all courses in the Focus.

Completion Requirements:

Note: this Focus requires completion of a 0.5 credit or more in addition to the 7.5 credits required for the International Relations Major.

(2.5 credits)

1. HIS311H1

2. 2.0 credits chosen from the following list:
HIS312H1, HIS356H1, POL312H1, POL313H1,
HIS405Y1, HIS430H1, POL467H1, TRN409H1
 (Canadian Defense Policy since the end of the
 Cold War), TRN409H1 (Nuclear Weapons and
 International Politics), TRN410H1, TRN419Y1,
VIC476H1

Notes:

- Focus courses meet the basic IRP inclusion standard of substantially and directly addressing relations between and among countries at the state or society level.
- Students can request substitutions from the IRP Director
- Not all courses may be available at all times without scheduling conflicts.

Focus in International Economy (Major) - ASFOC1469H

Enrolment Requirements:

Enrolment in the International Relations Major is required for entry into this Focus.

Enrolment in this Focus is recommended after second year to guide choice of courses in the higher years. Please note normal course prerequisites will apply to all courses in the Focus.

Completion Requirements:

(2.5 credits)

1. ECO341H1
2. ECO342H1
3. 1.5 credits chosen from the following list:
ECO362H1, ECO364H1, ECO365H1,
ECO368H1, GGR326H1, POL361H1, POL362H1,
GGR344H1, ECO403H1, ECO419H1,
ECO459H1, ECO465H1, GGR418H1,
GGR430H1, HIS417H1, POL435H1, POL477H1

Notes:

- Focus courses meet the basic IRP inclusion standard of substantially and directly addressing relations between and among countries at the state or society level.
- Students can request substitutions from the IRP Director
- Not all courses may be available at all times without scheduling conflicts.

Focus in International Law & Human Rights (Major) - ASFOC1469D

Enrolment Requirements:

Enrolment in the International Relations Major is required for entry into the Focus.

Enrolment in this Focus is recommended after second year to guide choice of courses in the higher years. Please note normal course prerequisites will apply to all courses in the Focus.

Completion Requirements:

Note: this Focus requires completion of a 0.5 credit or more in addition to the 7.5 credits required for the International Relations Major.

(2.5 credits)

1. POL340H1 and POL341H1
2. 1.5 credits chosen from the following list:
ECO320H1, HIS338H1, HIS361H1, HIS397H1,
POL324H1, GGR419H1, HIS411H1, HIS465H1,
HIS470H1, HIS487H1, HIS493H1, POL412H1,
POL456H1, POL457Y1, POL469H1, TRN421Y1

Notes:

- Focus courses meet the basic IRP inclusion standard of substantially and directly addressing relations between and among countries at the state or society level.
- Students can request substitutions from the IRP Director
- Not all courses may be available at all times without scheduling conflicts.

Focus in Transnational Exchanges (Major) - ASFOC1469F

Enrolment Requirements:

Enrolment in the International Relations Major is required for entry into the Focus.

Enrolment in this Focus is recommended after second year to guide choice of courses in the higher years. Please note normal course prerequisites will apply to all courses in the Focus.

Completion Requirements:

Note: depending on course selection, this Focus may require the completion of extra 0.5 credits in addition to the 7.5 credits required for the International Relations Major.

2.5 credits from the following list:

ECO365H1, ECO368H1, HIS341Y1, HIS359H1, HIS415Y1, HIS439H1, HIS494H1, JHA394H1, GGR324H1, GGR344H1, POL456H1, POL445H1, POL472H1, TRN409H1 (Nuclear Weapons and International Politics), TRN410H1

Notes:

- Focus courses meet the basic IRP inclusion standard of substantially and directly addressing relations between and among countries at the state or society level.
- Students can request substitutions from the IRP Director
- Not all courses may be available at all times without scheduling conflicts.

Certificate in International Affairs (UofT Global Scholar) - ASCER1469

Enrolment Requirements:

This is an open enrolment Certificate. A student who has completed 4.0 credits may enrol in the Certificate.

Completion Requirements:

(Total: 2.5 credits)

- 1.0 credit from EAS100Y1, EAS110Y1, EAS120Y1, EST100H1, EST101H1, FIN100H1, FIN110H1, FSL100H1, FSL102H1, FSL120H1, FSL122H1, GER100Y1, GRK101H1, GRK102H1, HUN100Y1, INS210Y1, INS215Y1, INS220Y1, INS230H1, ITA100Y1, LAT101H1, LAT102H1, MGR100H1, NEW280Y1, AFR280Y1, NML110Y1, NML155H1, NML156H1, NML260Y1, NML270Y1, PRT100Y1 / (PRT101H1, PRT102H1), PRT120H1, RLG260H1, RLG261H1, RLG262H1, RLG263H1, RLG264H1, SLA100H1, SLA101H1, SLA105Y1, SLA106H1, SLA107Y1, SLA108Y1, SLA109Y1, SLA116H1, SPA100Y1 / (SPA101H1, SPA102H1), SWE100H1, SWE101H1. Other introductory language classes may be approved by the Director of the International Relations Program.

2. 1.0 credit from TRN250Y1 or (POL208H1 + one of POL201H1 / POL205H1 / POL211H1 / POL218H1 / POL219H1 / POL220H1 / POL223H1 / POL224H1)
3. 0.5 credit gained studying international affairs as part of an international experience.

Students are encouraged to discuss possible options with the Director of the International Relations Program.

Transfer credit equivalents of the following courses earned from participation in an international exchange or actual courses completed via the Summer Abroad program will qualify for this requirement:

ECO324H1 / ECO341H1 / ECO342H1 / ECO362H1 / ECO364H1 / ECO365H1 / ECO368H1 / ECO401H1 / ECO403H1 / ECO409H1 / ECO417H1 / ECO419H1 / ECO459H1 / ECO465H1 / GGR314H1 / GGR326H1 / GGR329H1 / HIS300H1 / HIS311H1 / HIS338H1 / HIS341Y1 / HIS343H1 / HIS344H1 / HIS359H1 / HIS361H1 / HIS377H1 / HIS379H1 / HIS397H1 / HIS401H1 / HIS416H1 / HIS419H1 / HIS439H1 / HIS451H1 / HIS457H1 / HIS470H1 / HIS479H1 / HIS492H1 / HIS493H1 / HIS494H1 / HIS498H1 / JHA384H1 / JPA376Y0 / NMC378H1 / POL324H1 / POL326H1 / POL327H1 / POL329H1 / POL340H1 / POL341H1 / POL348H1 / POL349H1 / POL361H1 / POL362H1 / POL377H1 / POL410H1 / POL412H1 / POL413H1 / POL417H1 / POL418H1 / POL435H1 / POL441H1 / POL442H1 / POL445H1 / HIS446H1 / POL456H1 / POL459H1 / POL466H1 / POL467H1 / POL469H1 / POL472H1 / POL477H1 / POL486H1 / POL487H1.

A Global Classroom course, International Course Module, or Research Excursion Program dealing with some aspect of international affairs not captured in the above list may also fulfill the global experience requirement with approval of the Director of the International Relations Program.

Regarding Trinity College Courses

- Trinity College First-Year Foundations;
- Trinity One;
- Ethics, Society, and Law;
- Independent Studies;
- International Relations;
- Other

First Year Foundations (FYF)

The FYF seminars are designed to provide the opportunity to work closely with an instructor in a class of no more than thirty students. These interactive seminars are intended to stimulate the students' curiosity and provide an opportunity to get to know a member of the professorial

staff in a seminar environment during the first year of study.

Trinity One Courses

Students participating in other Foundational Year programs (e.g., Vic One, Munk One) are excluded from Trinity One.

Trinity College Courses

Trinity College First-Year Foundations

TRN191H1 - Disaster and Terrorism: Religion and Ethics at Ground Zero

Hours: 24S

In response to contemporary terrorist attacks and natural disasters, many are led to cry, "The world will never be the same!" How should such statements be evaluated? What impact do they have on social and political life? This course explores religious and cultural responses to human tragedy and cultural shock. Discussion will attend to debates over the meaning of suffering, public reactions to terrorism, the traumas of natural disasters, and the role of media in covering such events. These themes are engaged from the perspectives of ethics, cultural theory, religious studies, and theology. The course focuses on popular responses to events that include: the Lisbon Earthquake of 1755, the First World War, the Holocaust, Hurricane Katrina, the Japanese experiences of Hiroshima and Fukushima, 9/11, and more recent examples of terrorism and disaster. Attention will be given to concerns such as the impact of trauma on social and political debate, the function of religious discourse in the face of tragedy, the nature of ideology, and the relationship between religion and violence. A thematic concern throughout the course will be the nature of ethical commitment in the midst of confusion and social disruption. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

TRN192H1 - Public Health in Canada: Health for the 21st Century

Hours: 24L

This course deals with preventive care and population health. It will also move into new areas like healthcare and the environment (climate change) and the greening of healthcare. It will look at health as an extension of democracy – of how health extends individual rights beyond the political realm to the social realm, of how it can build social capital and knit populations together. It will look at areas inimical to health, 'detriments to health' and how economic inequality can lead to health inequality. Along with this it will look at ways of empowering the individual, the public as agent and a role of public engagement by major institutions. It will also push beyond the popular determinants of health to engage students in a paradigm on next steps, the future challenges in population health. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

TRN193H1 - Canadian Health Policy: Past, Present and Future

Hours: 24L

This is a health systems course. It deals with illness care, individual health, and health insurance. It will take a comparative and historical approach. We will look at the genesis of Canadian healthcare, our benefits and those other countries provide (e.g., pharmacare, dental care). We will look at indirect contributors like childcare and basic income. We will examine the public-private debate. We will also take some novel approaches. One is that the university has an expanded role in the 21st century, one that involves public outreach, a role that includes healthcare. Recent academic literature on healthcare notes that it is nation-building. We will look at why. We will examine some cutting-edge ideas, like integrated care, the learning health system, the concept of customer-owners. We will explore whether our healthcare system needs to be anchored by 'institutions of excellence' and identify these. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

TRN194H1 - Literature and Wicked Problems

Hours: 24L

This course explores contemporary literature in relation to the interdisciplinary framework of “wicked problems.” Research emphasizes that complex, entrenched problems, like government relations with Indigenous peoples or human impacts on the climate, involve interconnected systems and require approaches that cross disciplines and types of knowledge. The course examines the role of literary works (mostly 21st-century fiction) in addressing these issues of pressing concern to students as global citizens. Critical thinking, scholarly reading and database research are foundational skills that this course strengthens in order to prepare students for their writing in disciplines across the university. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

TRN195H1 - The Literature of Heroes and Horrors

Hours: 24L

This course explores contemporary literary works that redefine heroism in light of personal and cultural trauma. What does recent literature (mostly 21st-century fiction) show us about the nature of heroism in our time? To answer this question, the course examines theories of psychological trauma, studies in the field of positive psychology, and research on gothic and dystopian literature. Critical thinking, scholarly reading and database research are foundational skills that the course strengthens in order to prepare students for their writing in disciplines across the university. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

TRN196H1 - Joy and Resistance in Diverse Storytelling

Hours: 24L

"Can we speak about joy for once?" In contemporary literature from Black, Indigenous and People of Colour (BIPOC) authors across Canada and Turtle Island, there is a resurgence in diasporic stories that capture the joy and resistance of carving space for community against the mechanisms of the state. This course explores how BIPOC literature has intersected with social problems and

activist movements, creating spaces for readers to reflect on their own lived experiences. Students will expand their creative thinking, critical reading and scholarly writing skills through multi-modal assignments that offer connections to current issues and community knowledge. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

TRN197H1 - In the Shadow of the Vikings: Depictions of the Early Norse in Medieval, Modern, and Post-Modern Culture

Hours: 24L

Although rarely attested during the historical era when they were active, since the early nineteenth century the word “Viking” has been popularly applied to describe groups of Scandinavian adventurers who marauded along the frontiers of Medieval Europe: in this respect, the image of “the Viking” may be regarded as much a modern, as it is a medieval, creation. The legacy of historical “Viking activities” was a factor in the development of modern nation states in Scandinavia and the Baltic region, and their contributions to the heritage of people residing in Britain, continental Europe, the Middle East, and even the Atlantic coast of Canada have been and continue to be cited to the present day. Aspects of culture attributed to “the Vikings”—their assumed independence, courage, resourcefulness, and tenacity in the face of adversity, as well as the occult characteristics of their cosmology—have, for better and worse, inspired modern artists, writers, composers, intellectuals, explorers and even political leaders, and persist in present day literature, art, music, sport and popular culture as well. Why and how do elements of historic Viking culture continue to evoke traditions and characteristics popularly attributed to “the Vikings”? What are some implications of “Viking-ness” for those people in the post-Viking Age past and/or present who we may regard—or may regard themselves—as the “cultural descendants” of the Vikings? In this seminar, participants will study selected cultural artifacts of the “post-Viking Age,” along with recent multidisciplinary research, to observe how various “post-Viking Age” cultures and subcultures have selectively appropriated elements of the “Viking” past. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

TRN198H1 - The Viking Phenomenon: Commerce, Conflict, and Communication along Europe's Frontiers, 7th – 15th Century

Hours: 24L

Perspectives on the impact that the Scandinavian raiders and traders popularly referred to as “Vikings” had on European and World history continue to develop as the work of historians, archaeologists, linguists, and scientists expands our understanding of the past. Recent research has revised the traditional view of the “Vikings” as primarily marauding warriors; in its place, a more complex and nuanced conception of the implications that “Viking activity” had on the social, economic, and political development of the peoples with whom they came in contact has emerged. This seminar will consider the relationship between the traditional conception of the “Viking warrior” and recent research that suggests the broader impact that the “Viking Phenomenon” had upon the economic revival and sociopolitical development of medieval Europe and its frontiers. In the course of the seminar, we will examine a selection of historical records and information concerning artifacts of the material culture of “The Viking Age” in order to better understand the activities of early medieval “Vikings,” not only as warriors, but also as agents of commerce, explorers, pioneers, and rulers. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

TRN199H1 - Classical Social and Political Thought from the 18th Century Enlightenment to the 20th Century

Hours: 24L

We begin with European social and political thought during the 18th century, including ideas of enlightenment and revolution. We move on to the 19th century to engage with the critical Marxist theorisation of the new “capitalist” social and political formation, and look at the reception of the Marxist view in the 20th century, all of which continues to affect the character of Western social and political thought. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

Trinity One

TRN125Y1 - Contemporary Issues in Health Science

Hours: 48S

Can the immune system be strengthened? Are some diseases incurable? What is the best way to stop the spread of a virus? This course examines the scientific principles underlying contemporary issues in the science of human health with the goal of exposing students to the current state of biomedical research. We will develop three distinct types of understanding that are essential to literacy about the science of human health: the basic concepts in science; the nature of scientific research; and the rules that govern how scientists do their work. This course will explore topics such as stem cells, gene editing, regenerative medicine, vaccination, drug development, and personalized medicine. Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN225Y1

Breadth Requirements: Living Things and Their Environment (4), Society and its Institutions (3)

TRN135Y1 - Science and Social Choice

Hours: 48S

Many of the decisions we make as a society rely on advances in scientific knowledge. In this course, we will discuss a number of contemporary medical topics that involve complex scientific discoveries about health, the human body, disease, and infection. We will consider genes and study the medical implications of our growing understanding of the human genome. We will study a number of recent cases in order to explore how scientific findings influence decision-making in hospitals and the selection of social policies. We will also discuss the background forces that shape medical research and how this affects the kinds of health problems that are prioritized. The objective of this course is to develop a solid understanding of biological concepts related to human health and consider them in their wider social and ethical contexts. Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN136Y1

Breadth Requirements: Living Things and Their Environment (4), Society and its Institutions (3)

TRN136Y1 - Canadian Health Policy in the Global Context

Hours: 48S

In this course we consider when our health policies support the highest standards of medical care, consistent with the latest discoveries in medical research. We examine the ways in which debates around ethics, effectiveness and efficiency shape global and national health policy. We begin by exploring the most important advancements in global health policy over the past two decades. We then assess Canada's experience in providing health care, identifying lessons for national policy reform and for Canada's role as a leader in global health research and policy. We explore a range of health challenges including universal health care, anti-microbial drug resistance, HIV AIDS, tuberculosis, reproductive, maternal, newborn and child health, cardiovascular care, oncology, environmental health, indigenous health, violence against women and mental health. Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN135Y1

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN140Y1 - Ethics, Humans, and Nature

Hours: 48S

This course introduces students to ethical issues arising from the way humans interact with nature. Students will study some theoretical approaches for evaluating how human society affects the planet, ecosystems, and the other animals. Theories will be drawn from philosophy, theology, and ecology, and will include Western and non-Western approaches to living in harmony with one's environment. Key themes may include speciesism – the idea that human needs are the most important – as well as overpopulation, extinction, vegetarianism, and responsible resource management. The course will also look at how social policy shapes human choices and whether sustainability initiatives should be pursued through the public or private sector. The course will also discuss the spiritual connection between humans and the environment and how society can be organized to promote access to nature in urban communities. Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN141Y1

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN141Y1 - Environmental Science and Pathways to Sustainability

Hours: 48S

This course introduces students to fundamental issues in environmental science with a multi-disciplinary focus on human impacts on physical and biological systems, and on identifying pathways to sustainability. Key themes will include energy and resources, climate change, land use, contaminants and protecting biodiversity in the context of the Anthropocene. The course challenges students to apply the scientific method to environmental monitoring, research and problem solving through project design, data collection and analysis. The course also emphasizes information literacy, skills to distinguish science from pseudo-science, and considerations around representation of environmental science in the media. Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN140Y1

Breadth Requirements: Living Things and Their Environment (4), The Physical and Mathematical Universes (5)

TRN150Y1 - National versus International

Hours: 48S

The international system today faces extraordinary challenges. Understanding these challenges requires understanding the past. This seminar course briefly reviews the origins and development of the international system from the 17th century through the age of empires and the great wars of the 20th century. It then concentrates on the clash of nationalism with internationalism in the world since 1945, looking at such issues as what drives nationalism and what alternatives there are to it. We will study ideas and ideologies as well as the institutions that make up the current geopolitical world. Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN151Y1

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN151Y1 - Global Governance

Hours: 48S

Terrorism, the proliferation of arms (including weapons of mass destruction), environmental degradation, globalization, technological change, and the rise of non-

state actors all pose challenges to statecraft and the management of global order. This seminar course explores the changing dynamics of global politics and the responses to them by states (and others). Topics will include an examination of new forms of international collaboration that have developed in the wake of crises in the years following the Second World War. Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN150Y1/ TRN152Y1

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN152Y1 - Justice & Global Conflict

Hours: 48S

Modern states face both new and familiar challenges to protecting national security. National insecurity threatens a country's capacity to protect the well-being of its citizens while at the same time participating in international organizations and treaties. This course explores the origins and management of international conflict from the 17th to the 21st century, focusing on the precursors to war and the markers of peace. We will also consider the ways in which our current global world order promotes and preserves justice between and within nations. Students will consider different theoretical approaches to justice between nations, and apply them to recent security issues. By studying the history of conflict and the difference between justice and injustice students will gain a deeper understanding of how current geopolitical actors can structure and affect the prospects for security policy reform moving forward. Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN151Y1

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN160Y1 - Public Policy and the Public Good

Hours: 48S

This course examines the sense of the public good that undergirds Canada's domestic and international obligations. We examine the notion of the "public" through investigating possible answers to a central political question: what is the purpose of government? Drawing on readings in philosophy and political theory, the course considers a variety of approaches to defining the nature of the public good and how policy makers should respond when competing goods (e.g., freedom and security) clash with each other. In addition, the course looks at the

treaties and conventions that articulate the responsibilities of signatory nations regarding challenges such as climate change mitigation, refugee resettlement, and foreign aid. Students will learn how international agreements either compel or encourage participation and multilateral cooperation in the absence of robust enforcement mechanisms.

Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN161Y1/ TRN162Y1

Breadth Requirements: Society and its Institutions (3), Thought, Belief and Behaviour (2)

TRN161Y1 - Making Public Policy Work

Hours: 48S

How do we know what kinds of public policy will work and what will not? How do we assess the effectiveness of a policy? An historical examination of ways in which Canadian governments have addressed a range of policy problems. Case studies of areas of federal and provincial activity today. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Trinity One

Breadth Requirements: Society and its Institutions (3)

TRN162Y1 - Political Economy and Social Inequality

Hours: 48S

What is the relationship between capitalism and democracy? How can understanding rational choice theory inform public policy? This course will introduce students to the methods of studying the interplay between economics and politics. We will focus on specific topics to guide our quantitative analysis, which may include intergenerational poverty, the transfer of wealth, efficiency, and social stratification. We will analyse empirical results while developing critical skills for interpreting economic data and research. The course also considers global economic dynamics, transnational governance regimes, as well as the political-economic dimensions of setting global policies. By the end of the course, students will have a better understanding of global political economy, and its connection the fields of international relations and public policy.

Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN160Y1

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN170Y1 - Ethics and the Creative Imagination

Hours: 48S

A seminar course that explores ethical issues through the study of works of the creative imagination that pose or provoke questions of right and wrong, good and evil, justice and injustice. The selected works will be drawn from such fields as literature, film, and the visual and performing arts. Open only to students admitted to Trinity One. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Trinity One

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

TRN171Y1 - Ethics and the Public Sphere

Hours: 48S

What does it mean to be morally required to do something? What rights do we have over ourselves, our bodies, our privacy, our choices? In this course, we will read texts from philosophy, history, political science, cultural studies and beyond that engage with the theme of ethics in the public arena. These will provide valuable analytic tools as we go on to confront contemporary issues that raise urgent ethical questions. Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN172Y1

Breadth Requirements: Society and its Institutions (3), Thought, Belief and Behaviour (2)

TRN172Y1 - Ethics and the Law

Hours: 48S

What is the relationship between moral values and the law? What role does the law play in enabling people to live better lives? Are legal institutions and actors subject to higher ethical standards? In this course we will read texts from legal theory and political philosophy to try to explain the connection between ethics and the law. This will provide the basis for thinking about some historical and contemporary legal cases, as well as ethical issues judges, lawyers, and lawmakers face in their professional

roles. Restricted to first-year students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN171Y1

Breadth Requirements: Thought, Belief and Behaviour (2), Society and its Institutions (3)

TRN225Y1 - The Art of Health Science Discovery

Hours: 48S

Illustrated by contemporary examples, students go through the stages of the scientific discovery process. From initial idea, through literature review, funding (grant writing and assessment), experimental design and critical analysis of data through to the public dissemination of results by publication, the patent process and development of intellectual property. Restricted to students admitted to the Trinity One Program. Not eligible for CR/NCR option.

Corequisite: TRN125Y1

Breadth Requirements: Living Things and Their Environment (4), Society and its Institutions (3)

TRN235H1 - Health Policy in Canada: Past, Present and Future

Hours: 24S

This course explores the nature and impact of public health policy in Canada. The course describes the origins of Canadian health policy, its evolution towards its current form and the choices resulting from aging populations and the increasing costs associated with a high standard of health care.

Prerequisite: TRN135Y1

Breadth Requirements: Society and its Institutions (3)

TRN236H1 - The Politics of Global Health

Hours: 24S

This course explores the nature and impact of policy relationships designed to improve global public health. We explore the analytical tools necessary to study these institutional arrangements and examine successes and failures of these policy relationships across a range of global health policy challenges including infectious disease and child health.

Prerequisite: [TRN135Y1](#)

Breadth Requirements: Society and its Institutions (3)

Ethics, Society and Law

TRN203H1 - Society, its Limits and Possibilities

Hours: 24L/12T

Key texts from various disciplines that articulate fundamental features, limitations, and possibilities of contemporary society are introduced. Political consent, economics, governmental administration, the global / post-colonial world, historical transformation, gender politics, and media may be addressed.

Prerequisite: Active in ASMAJ1618

Exclusion: [TRN321H1](#) taken in 2015 Fall

Breadth Requirements: Society and its Institutions (3)

TRN204H1 - Introduction to Law and Legal Reasoning

Hours: 24L/12T

This course introduces students to legal reasoning through progressively complex exercises. First, hypotheticals expose students to basic skills required for legal reasoning. Second, they analyze simplified versions of specially selected concrete cases. Third, the course analyses real cases discussed in first year courses in law school.

Prerequisite: Active in ASMAJ1618

Breadth Requirements: Society and its Institutions (3)

TRN303H1 - Ethics and Society

Hours: 24S

An exploration of the ethical dimensions of selected contemporary social issues. Restricted to students in the major program Ethics, Society, and Law.

Prerequisite: [TRN203H1](#) and active in ASMAJ1618

Recommended Preparation: [PHL271H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

TRN304Y1 - Law and Social Issues

Hours: 48L

An exploration of the legal dimensions of selected contemporary social issues, focusing on law as a practice of social justice, and led by instructors with considerable practical experience. Restricted to students in the major program Ethics, Society, and Law.

Prerequisite: Active in ASMAJ1618

Exclusion: [TRN304H1](#)

Recommended Preparation: [PHL271H1](#), [TRN204H1](#)

Breadth Requirements: Society and its Institutions (3)

TRN304H1 - Law and Social Issues

Hours: 24L

An exploration of the legal dimensions of selected contemporary social issues. Restricted to students in the major program Ethics, Society, and Law.

Prerequisite: Active in ASMAJ1618

Exclusion: [TRN304Y1](#)

Recommended Preparation: [PHL271H1](#), [TRN204H1](#)

Breadth Requirements: Society and its Institutions (3)

TRN305Y1 - Basic Principles of Law

Hours: 48L

The nature and justification of legal rules as preparation for the study of basic principles of law governing the relations between individual citizens, and the relations between individual citizens and the state. A selection of contract, tort, criminal and administrative law. Restricted to students in the major program Ethics, Society, and Law.

Prerequisite: Active in ASMAJ1618 only if enrolling in the Fall/Winter session. A student must be in third or fourth year.

Exclusion: [TRN305H1](#)

Recommended Preparation: [TRN204H1](#)

Breadth Requirements: Society and its Institutions (3)

TRN305H1 - Basic Principles of Law

Hours: 24L

An exploration of some basic legal principles in public and private law. Areas of law that may be studied include contract, tort, criminal and administrative law. Restricted to students in the major program Ethics, Society, and Law.

Prerequisite: Active in ASMAJ1618. A student must be in third or fourth year.

Exclusion: TRN305Y1

Recommended Preparation: PHL271H1, TRN204H1

Breadth Requirements: Society and its Institutions (3)

TRN312H1 - Sustainability Issues in Ethics, Society, and Law

Hours: 24L/12T

This course focuses on core issues selected from the general domain of sustainability which are addressed through each of the three subject-area lenses of Trinity's Ethics, Society, and Law program, namely the ethics, the socio-political context, and the legal environment of sustainability issues and initiatives.

Prerequisite: TRN203H1, TRN204H1

Exclusion: TRN321H1 (Selected Topics in Ethics, Society, and Law: The Ethics, Society and Law of Environmental Sustainability), offered in Winter 2020

Recommended Preparation: PHL271H1

Breadth Requirements: Society and its Institutions (3)

TRN320H1 - Selected Topics in Ethics, Society, and Law

Hours: 24S

The course examines a selected topic in ethics, society, and law. The set of topics will be based on the research interests of an individual instructor. Both the topics and the instructor may change with each offering of the course, and the course is not expected to be offered every year.

Prerequisite: Enrolment in ASMAJ1618. A student must be in third or fourth year.

Recommended Preparation: PHL271H1, TRN203H1, TRN204H1

Breadth Requirements: Society and its Institutions (3)

TRN321H1 - Selected Topics in Ethics, Society, and Law

Hours: 24S

The course examines a set of selected topics in ethics, society, and law. The topics will be based on the research interests of an individual instructor. Both the topics and the instructor may change with each offering of the course, and the course is not expected to be offered every year.

Prerequisite: Enrolment in ASMAJ1618. A student must be in third or fourth year.

Recommended Preparation: PHL271H1, TRN203H1, TRN204H1

Breadth Requirements: Thought, Belief and Behaviour (2)

TRN406H1 - Community Research Partnerships in Ethics

Students undertake research projects designed to meet the knowledge needs of ethics-oriented organizations in the broader community.

Prerequisite: Students must be in the final year of registration in the Major Program in Ethics, Society, and Law and will normally have a CGPA of at least 3.70. Enrolment is by application. Consult the Arts & Science Registration Instructions and Timetable at <http://www.artsci.utoronto.ca/current/course> for course enrolment procedures.

Recommended Preparation: PHL271H1, TRN203H1, TRN204H1, TRN303H1

Breadth Requirements: Thought, Belief and Behaviour (2)

TRN407Y1 - Community Research Partnerships in Ethics

Students undertake research projects designed to meet the knowledge needs of ethics-oriented organizations in the broader community.

Prerequisite: TRN303H1. Students must be in the final year of registration in the Major Program in Ethics, Society, and Law and will normally have a CGPA of at least 3.70. Enrolment is by invitation. Consult the Arts & Science course enrolment web page at <https://www.artsci.utoronto.ca/current/academics/course-enrolment> for enrolment procedures.

Recommended Preparation: PHL271H1, TRN203H1, TRN204H1

Breadth Requirements: Thought, Belief and Behaviour (2)

TRN412H1 - Seminar in Ethics, Society, and Law

Hours: 24S

Capstone Seminar in Ethics, Society, and Law. Students must be in their final year of registration in the Major Program: Ethics, Society and Law. For detailed description of topics, please visit

<https://www.trinity.utoronto.ca/study-arts-science/ethics-society-law/courses-program-requirements/>.

Students are not eligible to enrol in this course more than once, for credit.

Prerequisite: TRN303H1

Recommended Preparation: [PHL271H1](#), [TRN203H1](#), [TRN204H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

TRN425Y1 - Law Workshops Course

Students attend workshops in the Faculty of Law, meet for related discussion and complete related assignments. Enrolment is restricted to qualified fourth-year students registered in the Major Program Ethics, Society, and Law.

Prerequisite: [TRN303H1](#). Enrolment is by invitation. Consult the Arts & Science Registration Instructions and Timetable. Students must be in the final year of registration in the Major Program in Ethics, Society, and Law and will normally have strong performance in 300-level courses in Ethics, Society and Law.

Recommended Preparation: [PHL271H1](#), [TRN203H1](#), [TRN204H1](#)

Breadth Requirements: Society and its Institutions (3)

Independent Studies

TRN205H1 - Independent Studies

Trinity Independent Studies. Not eligible for CR/NCR option.

TRN299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

Prerequisite: Application through the Research Opportunity Program (ROP); selection by the instructor.

TRN299H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

Prerequisite: Application through the Research Opportunity Program (ROP); selection by the instructor.

TRN300H1 - Trinity Independent Studies

Trinity Independent Studies. Not eligible for CR/NCR option.

TRN301Y1 - Trinity Independent Studies

Trinity Independent Studies. Not eligible for CR/NCR option.

TRN302Y1 - Trinity Independent Studies

Trinity Independent Studies. Not eligible for CR/NCR option.

TRN399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

TRN399H1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

Prerequisite: Application through the Research Opportunity Program (ROP); selection by the instructor.

TRN400H1 - Trinity Independent Studies

Trinity Independent Studies. Not eligible for CR/NCR option.

TRN404Y1 - Trinity Independent Studies

Trinity Independent Studies. Not eligible for CR/NCR option.

TRN405Y1 - Trinity Independent Studies

Trinity Independent Studies. Not eligible for CR/NCR option.

International Relations

TRN250Y1 - Empire, Nationalism, and the History of International Relations

Hours: 24L/48T

Our modern world has its foundations in the development of a complex and changing system of international behaviours, customs, and rules. This course explores the global and often difficult transition from a world of empires to our contemporary world of nation-states, spanning the mid-eighteenth century to the present day. Using a global lens, this course offers an introductory historical survey using multiple perspectives and diverse settings, paying special attention to the dissolution of empire, popular revolution and mass movements, and the creation of international order. How global transformations were experienced, not only at the highest levels of power, but also by the people living amidst such change, will be an abiding concern of this course.

Prerequisite: Admission to International Relations Major or Specialist program

Recommended Preparation: Prerequisite courses for entry into International Relations Major or Specialist Program

Breadth Requirements: Society and its Institutions (3), Thought, Belief and Behaviour (2)

TRN350H1 - Scarcity, Sustainability, and the Future of International Relations

Hours: 24L/12T

International Relations are changing, and changing quickly. Major challenges in global affairs, including the interrelated problems of climate change, resource scarcity, great power competition, and changes in mass politics will shape our future in uncertain and possibly dangerous ways. This course seeks to evaluate the effect of these interconnected issues on our world today, and their implications for the future. Through a series of case studies, students will be encouraged to identify future international challenges and work to develop sustainable and innovative solutions to the problems that will confront our world in the next decades and beyond.

Prerequisite: TRN250Y1

Breadth Requirements: Society and its Institutions (3)

TRN409Y1 - Selected Topics in International Studies

Selected Topics in International Studies

Prerequisite: Enrolment in the International Relations program or in a History or Political Science major or specialist program

Exclusion: TRN409H1

Breadth Requirements: Society and its Institutions (3)

TRN409H1 - Selected Topics in International Studies

Selected Topics in International Studies

Prerequisite: TRN250Y1 and at least 14.0 credits completed

Exclusion: TRN409Y1

Breadth Requirements: Society and its Institutions (3)

TRN410H1 - Researching Critical Cases in Contemporary International Relations

This course allows students with majors in International Relations to apply some of the techniques and skills they have developed during their undergraduate careers to an original research project. The course introduces several theoretical and methodological tools that are used to understand and analyze a variety of major developments affecting contemporary international relations. Students will examine the strengths and weaknesses of each

research method and apply those that are most appropriate to their own IR study.

Prerequisite: TRN250Y1 and at least 14.0 credits completed

Exclusion: TRN410Y1

Recommended Preparation: POL208Y1 or HIS344H1 are recommended as preparation or taken concurrently.

Breadth Requirements: Society and its Institutions (3)

TRN411Y1 - Selected Topics in International Studies

Selected Topics in International Studies

Prerequisite: Enrolment in the International Relations program or in a History major or specialist program, or permission of instructor

TRN419Y1 - Comparative American, British and Canadian Foreign Policy

Hours: 48S

The origins and evolution of American, British and Canadian foreign policy from the late 18th century to the present. Policies are compared in order to understand the development of these countries as nations and actors in the international community.

Prerequisite: Completion of 14.0 credits

Breadth Requirements: Society and its Institutions (3)

TRN421Y1 - Fragile and Conflict-Affected States in Global Politics

Hours: 48S

Since the end of the Cold War, fragile and conflict-affected states have been widely viewed in the international relations field as one of the preeminent challenges to international security and global governance. Western countries have typically responded to this challenge by launching interventions aimed at building new states that can be integrated into the global, liberal order. This course will dissect the liberal peacebuilding and statebuilding project and explore its broader impact and implications for the international system.

Recommended Preparation: POL300Y1 or POL343Y1

Breadth Requirements: Society and its Institutions (3)

Other Trinity College Courses

TRN200Y1 - Modes of Reasoning

Previous Course Number: TRN200H1

Hours: 24L/24S

First term: students are taught how to recognize, analyze, evaluate, and construct arguments in ordinary English prose. Second term: one or more discipline-related modes of reasoning (e.g., scientific reasoning, ethical reasoning, legal reasoning) studied with reference to a selection of contemporary social issues.

Exclusion: PHL247H1/ PHI247H1/ TRN200H1

Breadth Requirements: Thought, Belief and Behaviour (2)

TRN307H1 - International Experience I

A one semester research experience abroad. Students participate in a research project under the mentorship of a faculty supervisor in the host institution and gain experience of working and living abroad.

Breadth Requirements: Society and its Institutions (3)

TRN308H1 - International Experience II

Students who have engaged in a research project abroad participate in a regular forum in which they present their research projects and discuss their varied experiences of work and social engagement in different foreign environments. Students prepare a detailed scholarly article based on their research.

Prerequisite: TRN307H1

Breadth Requirements: Society and its Institutions (3)

TRN377Y1 - Trinity Comprehensive Paper I

Students are individually mentored by faculty experts through readings from primary literature towards preparation of a quality review article. For students in third year, students identify their faculty mentor during second year and agree to become familiar with the available textbook level material during that year in their chosen topic. Not eligible for CR/NCR option.

Prerequisite: Completion of 8.0 credits and permission of the instructor

TRN477H1 - Trinity Comprehensive Paper II

The preparation of a publication quality review article typically involves extensive editing. Students are individually mentored by faculty experts to take the review paper generated in TRN377Y1 and edit the structure, content and style to produce a publication quality review article. Not eligible for CR/NCR option.

Prerequisite: TRN377Y1

TRN478H1 - Science Writing for Non-Scientific Audiences

The course aims to train senior-level science students in a wide range of writing genres, focusing on a diversity of non-scientific audiences and writing styles. In addition, students learn to read and analyze texts in order to understand rhetorical strategies and devices.

Prerequisite: Students in science specialist or major programs. Permission by instructor.

Exclusion: Non-science students, first or second year students.

Recommended Preparation: TRN377Y1 (the comprehensive paper will serve as writing sample).

Breadth Requirements: Living Things and Their Environment (4)

University College

Faculty List

Professors

E. Gilbert, MA, PhD (Vice-Principal)
L. Lai, MA, PhD (Canadian Studies)

Associate Professor

Y. Xu, PhD (Cognitive Science)

Associate Professors, Teaching Stream

J. John, BA, PhD (Cognitive Science)
J. Plotnick, MA, MSc (Writing Workshop)
S. Rayter, MA, PhD (Sexual Diversity Studies)
J. Vervaeke, MA, PhD (Cognitive Science)

Assistant Professors

C. Mekik, MCog, PhD (Cognitive Science)
J. Moreau, MA, PhD (Sexual Diversity Studies)

Assistant Professors, Teaching Stream

M. Grigorougrou, PhD (Cognitive Science)
N. Minai, PhD (Sexual Diversity Studies)
S. O'Flynn, MA, PhD (Canadian Studies)

Senior Lecturer

R. Salutin, MA (Canadian Studies)

Introduction

University College offers a number of programs and courses outside the areas traditionally covered by departments. These include UC One and programs and courses in Asian Canadian Studies, Canadian Studies, Cognitive Science, Drama, Health Studies, including the new Public Health Major, and Sexual Diversity Studies, in addition to First-Year Foundation Seminars. The overall aims of the College Programs are to foster interdisciplinary work in significant areas of study and to encourage intellectual breadth. Many program courses are open to students not enrolled in the programs themselves.

UC One: Engaging Toronto

UC One is an exciting initiative that provides first-year students with a special university experience. Students choose from one of four courses, each of which is designed to engage with the city from a different perspective. Classroom learning is directly linked to real life experience.

UC One is a 0.5 credit course, one of four courses typically taken by a first-year Faculty of Arts and Science

student. Enrolment in each course is limited to up to 30 students. Students enrol in one of the following four 0.5 credit courses:

- UNI101H1: Citizenship in the Canadian City
- UNI102H1: Performing the City I
- UNI103H1: Gradients of Health in an Urban Mosaic
- UNI104H1: Sex in the City

In UC One, you can choose a course that complements your own interests.

Weekly lectures and seminars will be supplemented with prominent guest speakers, including political and business leaders, activists from non-governmental organizations, theatre directors, artists, and health practitioners. Students will have the opportunity to meet with the speakers and socialize with their fellow students after each guest lecture. Students will also participate in a range of field trips across the city.

Students enrol to the specific course during the Enrolment period. All first-year students in the Faculty of Arts and Science (St. George campus) are eligible to enrol.

For more information visit the UC One website at:
<https://www.uc.utoronto.ca/uc-one>.

The Asian Canadian Studies program (Minor)

The minor in Asian Canadian Studies program focuses on community-engaged learning that explores how to understand the historical, social, cultural, economic, and political forces that affect people of Asian heritage in Canada. Our interdisciplinary courses connect students with local communities, and every course provides opportunities for students to pursue a choice of research interests. Together we critically investigate and add to knowledge about Asian Canadians.

The Canadian Studies Program (Specialist, Major, Minor)

The Canadian Studies program offers opportunities to study contemporary Canada in an interdisciplinary manner and to explore cultural, social, economical and political developments in this complex and diverse country. Students are encouraged to consider additional courses in Indigenous Studies in completing the requirements of the Program.

The Certificate in Black Canadian Studies

The Certificate in Black Canadian Studies will provide students with an opportunity to study and research the

social construction of race in Canada, with a focus on Black Canada and Black Canadians, past and present. This will include attending to structural and systemic discrimination in areas including politics, judicial systems, and the arts, as well as considering counter-narratives and forms of resistance and empowerment enacted by Black Canadian communities. This certificate also offers a specialization that considers the historical roots and contemporary implications of anti-Black racism, as well as movements that are building towards social equity, and future imaginings. While this certificate addresses local and national contexts, it also situates diasporic and transnational frameworks for understanding Blackness in Canada. As a result, the certificate also examines a comparative approach to meaning-making and belonging in solidarity with other forms of racism and oppression.

The Cognitive Science Program (Major)

The Cognitive Science Program introduces students to the field of cognitive science: the interdisciplinary study of mind in humans and machines. Our students gain an understanding of such mental phenomena as perception, language, reasoning, and consciousness, and they integrate this understanding with an account of how the human brain works.

The Cognitive Science Arts Major has three course streams: Perception and Attention; Thinking and Reasoning; and Language and Cognition. The Cognitive Science Science Major has two course streams: Computational Cognition and Cognition and the Brain. Courses include: [COG250Y1](#) Introduction to Cognitive Science; [COG341H1](#) and [COG342H1](#) Issues in Cognitive Science; [COG401H1](#), [COG402H1](#), and [COG403H1](#) Seminar in Cognitive Science; [COG498H1/COG499H1/COG497Y1](#) Independent Study; as well as courses drawn from offerings in Computer Science, Linguistics, Philosophy, and Psychology.

The Centre for Drama, Theatre & Performance Studies (Specialist, Major, Minor)

The Centre for Drama, Theatre & Performance Studies is described elsewhere in this [Calendar](#).

Health Studies

Health Studies (now offering a new Public Health Major – see note below) is specifically tailored to provide a rigorous academic core curriculum while maintaining an interdisciplinary breadth to accommodate your interests. Majors may explore many areas of study including public health, health policy, health practices, research methods, and socio-cultural determinants of health. The Public Health Major is specifically tailored to provide students with a strong foundation in public health. Our variety of elective courses allow students to investigate the

intersection between human health and other variables such as sexuality, ethics, and economics.

Note Regarding Changes to the Completion Requirements and Program Name for the Health Studies Major (ASMAJ2085)

Effective for program enrolment beginning in March 2025, the Health Studies Major (ASMAJ2085) will no longer be available for enrolment and students can instead request enrolment in the Public Health Major (ASMAJ2086). The enrolment and completion requirements for this Major are listed in the [University College Programs section](#) below.

Students who have enrolled in the Health Studies Major (ASMAJ2085) by [September 16, 2024](#) will be able to complete the requirements as published in the archived [2023-24 Arts & Science Academic Calendar](#). Consult University College for more information.

The Sexual Diversity Studies Program (Specialist, Major, Minor)

The [Sexual Diversity Studies Program](#) allows students to focus on questions of sexual identity, difference, and dissidence across disciplinary lines and cultural frameworks. By examining sexual diversity across time and place, students will learn about the ways different cultures have separated the sexual from the nonsexual, the normal from the abnormal, and what the regulation of sexuality can tell us about how power operates along the lines of gender and race, for example. Students will gain an understanding of how and why certain sexual practices have come under scrutiny, and the significance of the various labels and identities that we have attached to them.

University College (UNI) and Drama (DRM) Courses

University College (UNI) and Drama (DRM) courses are staffed by a combination of specific program staff members and members of various University departments, and are open to all students at the University. Further information on University College Independent Study courses is available at <https://www.uc.utoronto.ca/programs-study-academic-programs-independent-study>. Further information on Drama is available at <https://www.cdtps.utoronto.ca/>.

Enquiries

- Canadian Studies, Room UC173 – canadian.studies@utoronto.ca
- Cognitive Science, Room UC173 – cognitive.science@utoronto.ca
- Health Studies, Public Health Major, Room UC173 – health.studies@utoronto.ca

- UC One, Room UC173 – uc.one@utoronto.ca
- Centre for Drama, Theatre & Performance Studies (416-978-8099) – c.osborn@utoronto.ca
- Mark S. Bonham Centre for Sexual Diversity Studies (416-978-6276) – sexual.diversity@utoronto.ca

University College Programs

Asian Canadian Studies Minor (Arts Program) - ASMIN2728

The Minor in Asian Canadian Studies focuses on community-engaged learning that explores how to understand the historical, social, cultural, economic, and political forces that affect people of Asian heritage in Canada. Our interdisciplinary courses connect students with local communities, and every course provides opportunities for students to pursue a choice of research interests. Together we critically investigate and add to knowledge about Asian Canadians.

The category "Asian Canadian" is widely understood to refer to people in Canada of East Asian, South Asian, Southeast Asian, and West Asian ancestry.

Students take two required 0.5 credit core courses in Asian Canadian Studies; select from an array of courses in Asian Canadian Studies; and take additional courses related to the larger contexts of Asian Canadian Studies. The Minor in Asian Canadian Studies is easily combined with other disciplines, such as Anthropology, Art, Economics, English, Geography, History, Political Science and Sociology, as well as with interdisciplinary studies such as Contemporary Asian Studies, Diaspora and Transnational Studies, Equity Studies, East Asian Studies, South Asian Studies, and Near Eastern Studies.

Students will be encouraged to take full advantage of the opportunities available through the Canadian Studies Program, including its journal, *ImagiNATIONS*, produced by and for undergraduate students and its annual undergraduate student conference. The Canadian Studies Student Union is a focal point for social as well as academic pursuits, and is open to students pursuing a Minor in Asian Canadian Studies. Students also can participate in Asian Canadian Studies student events and in the tri-campus Asian Canadian Studies Research network. The Research network brings together professors and students to discuss current research related to Asian Canadian Studies, Asian diasporas, and global Asian migrations. Students in the minor are also invited to participate in the Asian Institute's Asian Pathways Research Lab that offers research opportunities in Toronto.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300+ level).

First Year: No specific first-year requirements. (Students are advised to take introductory courses that will serve as prerequisites for optional courses of interest to them later in the program.)

Subsequent year requirements:

Required courses (1.0 credit):

1. [CDN307H1](#) Asian Cultures in Canada
2. [CDN325H1](#)/ [CDN225H1](#) Asian Canadian Space & Place

Additionally, 1.0 credit each from Requirements 3 & 4.

3. Asian Canadians and Asian Diasporas in Canada:

[ANT477H1](#); [CAS413H1](#); [CAS450H1](#); [CDN230H1](#) / [HIS266H1](#); [CDN305H1](#); [CDN307H1](#); [CDN367H1](#); [CDN390H1](#); [CDN395H1](#); [CDN420Y1](#); [EAS315H1](#); [ENG268H1](#); [ENG368H1](#); [ENG369H1](#); [SAS114H1](#); [SOC218H1](#); [WGS369H1](#); [WGS376H1](#); [WGS482H1](#).

4. Contexts of Asian Canadian Studies:

[CDN202H1](#); [CDN205H1](#); [CDN218H1](#); [CDN221H1](#); [CDN267H1](#); [CDN268H1](#); [CDN280H1](#); [CDN305H1](#); [CDN335H1](#); [CDN355H1](#); [CDN367H1](#); [CDN368H1](#); [CDN380H1](#); [CDN385H1](#); [CDN405H1](#); [CDN406H1](#); [CDN420Y1](#); [CDN425H1](#); [CDN435Y1](#).

Additionally 1.0 credit from requirement 5.

5. Other Courses:

[INS201Y1](#); [INS261H1](#); [INS301Y1](#); [INS302H1](#); [INS350H1](#); [INS351Y1](#); [INS352H1](#); [INS353H1](#); [INS360Y1](#); [INS403H1](#); [INS407H1](#); [ABS401H1](#); [JFP450H1](#); [ANT204H1](#); [ANT315H1](#); [ANT322H1](#); [ANT365H1](#); [ANT412H1](#); [CAS201H1](#); [CAS202H1](#); [CAS413H1](#); [CIN332Y1](#); [CIN370H1](#); [CSC300H1](#); [DRM230Y1](#); [DRM268H1](#); [DTS200Y1](#); [EAS105H1](#); [EAS210Y1](#); [EAS211Y1](#); [EAS212H1](#); [EAS219H1](#); [EAS220Y1](#); [EAS221H1](#); [EAS300Y1](#); [EAS310Y1](#); [EAS320Y1](#); [EAS401H1](#); [EAS402H1](#); [EAS410Y1](#); [EAS460H1](#); [EAS461H1](#); [EAS474H1](#); [ECO321H1](#); [ECO322H1](#); [ENG215H1](#); [ENG252Y1](#); [ENG350H1](#); [ENG352H1](#); [ENG353H1](#); [ENG354Y1](#); [ENG357H1](#); [ENG359H1](#); [ENG424H1](#); [ENG425H1](#); [ENG428H1](#); [FAH248H1](#); [FAH262H1](#); [FAH345H1](#); [FAH367H1](#); [FAH457H1](#); [FAH458H1](#); [FAH482H1](#); [FAH485H1](#); [FAH486H1](#); [FAH495H1](#); [FIN320H1](#); [FRE210H1](#); [FRE314H1](#); [FRE379H1](#);

FEE410H1; FRE410H1; GGR124H1; GGR246H1; GGR320H1; GGR357H1; HIS262H1; HIS264H1; HIS283Y1; HIS307H1; HIS311Y1; HIS312H1; HIS313H1; HIS314H1; HIS318H1; HIS350H1; HIS363H1; HIS365H1; HIS366H1; HIS402H1; HIS405Y1; HIS410H1; HIS429H1; HIS420H1; HIS462H1; HIS464H1; HIS466H1; HIS469H1; HIS472H1; INI308H1/ WRR308H1; INI337H1/ URB337H1; INI385H1 / CIN370H1; INI387H1 / CIN389H1; INI437Y1/ URB437Y1; ITA233H1; ITA334H1; ITA493H1; JFP450H1; JGI346H1/ JGU346H1; ITA233H1; ITA334H1; ITA493H1; JFP450H1; JGI346H1/ JGU346H1; JQR360H1; LIN201H1; LIN458H1; MUS306H1; NEW240Y1; NEW346H1/ CSE346H1; NEW429H1/ CAR429H1; NMC278H1; NMC315H1; NML110Y1; NML210Y1; NML360Y1; NML370Y1; NML470Y1; POL214Y1; POL224H1; POL306H1; POL308H1; POL312Y1; POL314H1; POL316Y1; POL334H1; POL336H1; POL344Y1; POL349H1; POL356H1; POL382H1; POL425Y1; POL439H1; POL462H1; POL463H1; POL467H1; POL473H1; POL474H1; POL490H1; POL490Y1; POL491H1; POL491Y1; PRT234H1; PPG301H1; RLG261H1; RLG262H1; RLG308H1; RLG426H1; SLA238H1; SMC291H1; SMC315H1; SMC320H1; SMC366H1; SMC376H1/ CLT376H1; SMC377H1/ CLT377H1; SMC385H1; SMC413H1/ CLT413H1; SMC416H1/ CLT416H1; SMC428H1; SMC466H1; SOC220H1; SOC253H5; SOC311H1; SOC336H1; SOC383H1; TRN160Y1; TRN235H1; TRN419Y1; UNI101H1/ UNI101Y1; UNI102H1/ UNI106H1/ UNI102Y1; UNI103H1/ UNI103Y1; UNI104H1/ UNI104Y1; VIC119H1; VIC351H1; WGS380H1; SOC220H1; SOC311H1; SOC336H1; SOC383H1; TRN160Y1; TRN235H1; TRN419Y1; UNI101H1/ UNI101Y1; UNI102H1/ UNI106H1/ UNI102Y1; UNI103H1/ UNI103Y1; UNI104H1/ UNI104Y1; VIC119H1; WGS380H1.

A full list of approved Asian Canadian Studies courses and the approved list of courses related to the contexts of Asian Canadian Studies can be found on the website at www.uc.utoronto.ca/canadianstudies/. Please note that not all courses are offered on a regular basis. Students are responsible for checking co- and prerequisites for all courses. Courses that are in the current academic Calendar that include significant Canadian content may be considered, in consultation with the Canadian Studies Program Director. Consult the Canadian Studies Program Office, Room UC173, University College, 416-946-4025, E-mail: uc.academicsservices@utoronto.ca.

Notes:

- Effective Fall 2021, courses associated with Innis College's Urban Studies and Writing and Rhetoric programs will have the new "URB" and "WRR" designators respectively. Joint JGI courses will see their designator changed to "JGU."
- Effective Fall 2021, courses associated with New College's Caribbean Studies and Critical Studies in Equity and Solidarity programs will have the new "CAR" and "CSE" designators respectively.

- Effective Fall 2021, courses associated with St. Michael's College's Celtic Studies program will have the new "CLT" designator.

Canadian Studies Specialist (Arts Program) - ASSPE0728

Canadian Studies courses offer opportunities to study contemporary Canada in an interdisciplinary manner to explore cultural, social, economic, and political developments in this complex and diverse country. Students are encouraged to consider additional courses in Indigenous Studies in completing the Program requirements.

Please note that not all courses are offered on an annual basis. A list of approved Canadian Studies courses may be found at www.uc.utoronto.ca/canadianstudies/. Other courses that are in the current academic Calendar that include significant Canadian content may be considered for approval by the Canadian Studies Program Director. Consult the Canadian Studies Program Office, UC173, University College, 416-946-4025. Email: uc.academicsservices@utoronto.ca.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(11.0 credits in Canadian Studies approved courses, including 4.0 credits at the 300+ level, of which 1.0 credit must be at the 400-level.)

First Year: No specific first-year requirements. (Students are advised to take introductory courses that will serve as prerequisites for optional courses of interest taken later in the program.)

1. ([CDN267H1](#), [CDN268H1](#))

2. 1.0 credit from the following: [FAH248H1/ DRM268H1/ ENG215H1/ ENG252H1/ ENG254H1/ FOR200H1/ FRE210H1/ GGR240H1/ GGR246H1/ HIS262H1/ HIS264H1/ INS201H1/ INS210H1/ INS220H1/ INS231H1/ LIN201H1/ POL214Y1/ POL224Y1/ SLA238H1/ SOC218H1/ SOC220H1/ TRN235H1](#)

3. ([CDN367H1](#), [CDN368H1](#))

4. 0.5 credit from the following: [CDN307H1/ CDN335H1/ CDN380H1/ CDN385H1/ CDN390H1/ JSU325H1](#)

5. 1.0 credit from the following: [CDN405H1/ CDN406H1/ CDN420Y1/ CDN435Y1](#) and/or another fourth-year course approved by the Program Director.

6. Students will take another 6.5 credits offered by the Canadian Studies Program, or in the list of courses approved by the Canadian Studies Program (see: www.uc.utoronto.ca/canadianstudies/). Suitable courses not on the list may be considered for approval by the Program Director.

Canadian Studies Major (Arts Program) - ASMAJ0728

Canadian Studies courses offer opportunities to study contemporary Canada in an interdisciplinary manner to explore cultural, social, economic, and political developments in this complex and diverse country. Students are encouraged to consider additional courses in Indigenous Studies in completing the Program requirements.

Please note that not all courses are offered on an annual basis. A list of approved Canadian Studies courses may be found at www.uc.utoronto.ca/canadianstudies/. Other courses that are in the current academic Calendar that include significant Canadian content may be considered for approval by the Canadian Studies Program Director. Consult the Canadian Studies Program Office, UC173, University College, 416-946-4025. Email: uc.academicsservices@utoronto.ca

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits in Canadian Studies approved courses with 2.0 credits at the 300+ level, of which a 0.5 credit must be at the 400-level)

First Year: No specific first-year requirements. (Students are advised to take introductory courses that will serve as prerequisites for optional courses of interest to them later in the program.)

1. ([CDN267H1](#), [CDN268H1](#))

2. 1.0 credit from the following: [DRM268H1](#)/ [ENG215H1](#)/ [ENG252H1](#)/ [ENG254H1](#)/ [FOR200H1](#)/ [FAH248H1](#)/ [FRE210H1](#)/ [GGR240H1](#)/ [GGR246H1](#)/ [HIS262H1](#)/ [HIS264H1](#)/ [INS201H1](#)/ [INS210H1](#)/ [INS220H1](#)/ [INS231H1](#)/ [LIN201H1](#)/ [POL214Y1](#)/ [POL224Y1](#)/ [SLA238H1](#)/ [SOC218H1](#)/ [SOC220H1](#)/ [TRN235H1](#)

3. ([CDN367H1](#), [CDN368H1](#))

4. 0.5 credit from the following: [CDN307H1](#)/ [CDN335H1](#)/ [CDN380H1](#)/ [CDN385H1](#)/ [CDN390H1](#)/ [JSU325H1](#)

5. [CDN405H1](#)/ [CDN406H1](#) or another fourth-year Canadian Studies course approved by the Program Director.

6. Students will take another 3.0 credits offered by the Canadian Studies Program, or in the list of courses approved by the Canadian Studies Program (see: www.uc.utoronto.ca/canadianstudies/). Suitable courses not on the list may be considered for approval by the Program Director.

Students are responsible for checking co- and prerequisites for all courses.

Canadian Studies Minor (Arts Program) - ASMIN0728

Canadian Studies courses offer opportunities to study contemporary Canada in an interdisciplinary manner to explore cultural, social, economic, and political developments in this complex and diverse country. Students are encouraged to consider additional courses in Indigenous Studies in completing the Program requirements.

Please note that not all courses are offered on an annual basis. A list of approved Canadian Studies courses may be found at www.uc.utoronto.ca/canadianstudies/. Other courses that are in the current academic Calendar that include significant Canadian content may be considered for approval by the Canadian Studies Program Director. Consult the Canadian Studies Program Office, UC173, University College, 416-946-4025. Email: uc.academicsservices@utoronto.ca

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300+ level)

First Year: No specific first-year requirements. (Students are advised to take introductory courses that will serve as prerequisites for optional courses of interest to them later in the program.)

1. [CDN267H1](#)/ [CDN268H1](#)

2. [CDN367H1](#)/ [CDN368H1](#)

3. 1.0 credit from the list: [UNI101H1](#)/ [UNI101Y1](#)/ [CDN202H1](#)/ [CDN205H1](#)/ [CDN221H1](#)/ [CDN230H1](#)/ [CDN267H1](#)/ [CDN268H1](#)/ [CDN280H1](#)/ [CDN305H1](#)/ [CDN307H1](#)/ [SDS355H1](#)/ [CDN367H1](#)/ [CDN368H1](#)/ [CDN380H1](#)/ [CDN385H1](#)/ [CDN390H1](#)/ [CDN405H1](#)

CDN420Y1/ CDN425H1/ CDN430Y1/ CDN435Y1/
DRM268H1/ HST211H1/ JUG320H1/ JSU325H1/
SOC218H1/ UNI220Y1/ UNI320Y1

4. Students will take another 2.0 credits in courses offered by the Canadian Studies Program, or the long list of courses approved by the Canadian Studies program (a full list of approved Canadian Studies courses can be found on the website at www.uc.utoronto.ca/canadianstudies/). Suitable courses not on the list may be considered for approval by the Program Director.

Students are responsible for checking co- and prerequisites for all courses.

Certificate in Black Canadian Studies - ASCER0828

The Certificate in Black Canadian Studies will provide students with an opportunity to study and research the social construction of race in Canada, with a focus on Black Canada and Black Canadians, past and present. This will include attending to structural and systemic discrimination in areas including politics, judicial systems, and the arts, as well as considering counter-narratives and forms of resistance and empowerment enacted by Black Canadian communities. This certificate also offers a specialization that considers the historical roots and contemporary implications of anti-Black racism, as well as movements that are building towards social equity, and future imaginings. While this certificate addresses local and national contexts, it also situates diasporic and transnational frameworks for understanding Blackness in Canada. As a result, the certificate also examines a comparative approach to meaning-making and belonging in solidarity with other forms of racism and oppression.

Enrolment Requirements:

This is an open enrolment Certificate. A student who has completed 4.0 credits may enrol in the Certificate.

Completion Requirements:

(2.5 credits)

1. HIS265Y1
2. 0.5 credit from CAR429H1/ CDN335H1/ CSE347H1/ ENG356Y1/ WGS390H1
3. 1.0 additional credit, either from courses not already taken to fulfill Requirement 2, or from any of the following:
 - African Studies: AFR150Y1/ AFR353H1
 - Caribbean Studies: CAR120Y1/ CAR220H1/ CAR221H1/ CAR315H1/ CAR316H1/ CAR428H1
 - Cinema Studies: CIN337H1

- Criminology and Sociolegal Studies: CRI210H1/ CRI322H1/ CRI383H1
- Critical Studies in Equity and Solidarity: CSE240H1/ CSE340H1/ CSE341H1/ CSE344H1/ CSE344Y1/ CSE447H1
- Drama, Theatre and Performance Studies: DRM462H1
- Diaspora and Transnational Studies: DTS200Y1
- Geography and Planning: GGR456H1
- History: HIS106Y1/ HIS312H1/ HIS391Y1/ HIS429H1/ HIS446H1
- Joint Course: JQR360H1
- Political Science: POL467H1
- Sexual Diversity Studies: SDS382H1
- Sociology: SOC210H1/ SOC311H1/ SOC347H1/ SOC367H1/ SOC484H1
- Urban Studies: URB339H1
- Women and Gender Studies: WGS463H1/ WGS481H1

Notes:

- An elective course (maximum of 1.0 credit) dealing with some aspect of Black Canadian Studies not captured in the above list may be accepted with approval of the Canadian Studies program director at University College.
- Where applicable, students may also count up to 0.5 credit from courses at UTM and UTSC towards the certificate, in accordance with the regulations of the Faculty of Arts & Science and those at UTM and UTSC, and with approval of the Canadian Studies program director at University College.
- Effective Fall 2021, courses associated with New (NEW) College's African Studies, Caribbean Studies, and Critical Studies in Equity and Solidarity programs will have the new "AFR," "CAR," and "CSE" designators respectively. In addition, courses associated with Innis (INI) College's Urban Studies program will have the new "URB" designator.

Cognitive Science Major - Arts (Language and Cognition Stream) (Arts Program) - ASMAJ1445B

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- COG250Y1 with a minimum grade of 70%, or
- 1.5 credits in CSC, LIN, PHL, or PSY with a minimum grade average of 70% based on the 1.5 credits. No more than 1.0 credits can be from any ONE of the listed course designators. If more than 1.5 credits have been completed, the grade average will be based on the higher course grades.

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 70% in required courses will not usually be considered for admission. Please note that obtaining this minimum grade average of 70% does not guarantee admission to the program. The pool of applicants varies each year and sets the precedent for the program.

Note:

Students are responsible for checking co- and prerequisites for all courses. Not all courses are offered on a regular basis. A list of approved Cognitive Science courses can be found on the website:

<https://www.uc.utoronto.ca/cognitive-science>. For any questions, please email uc.academicsservices@utoronto.ca.

Completion Requirements:

(8.0 credits)

Where noted below, please consult the Faculty of Arts & Science Course Calendar on prerequisites.

First Year:

CSC108H1/ CSC120H1/ CSC148H1; LIN102H1 (note: LIN200H1 does not serve as prerequisite for upper year LIN courses)

Second Year:

COG250Y1 (may be taken in Year 1); STA220H1/ PSY201H1; PSY270H1

Second Year and Higher:

- COG341H1/ COG342H1, COG344H1, PHL342H1, PSY290H1
- 2.5 credits from Language and Cognition Stream courses:
 - JLP315H1/ JLP374H1; LIN232H1/ LIN241H1 and 1.5 credits of any of the following (at least a 0.5 credit must be from LIN): COG260H1/ COG341H1/ COG342H1/ COG343H1/ COG345H1/ COG415H1/ COG498H1/ COG499H1/ JLP315H1/ JLP374H1/ JLP471H1/

JLS472H1/ JLS473H1/ LIN232H1/ LIN241H1/ LIN331H1/ LIN341H1/ PHL245H1/ PHL340H1/ PHL345H1/ PHL351H1/ PHL451H1/ PSY210H1/ PSY312H1/ PSY473H1/ PSY493H1

- For those with the appropriate prerequisites: CSC401H1/ CSC485H1

Fourth Year: COG401H1/ COG404H1/ COG497Y1/ COG498H1/ COG499H1

Cognitive Science Major - Arts (Perception and Attention Stream) (Arts Program) - ASMAJ1445A

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- COG250Y1 with a minimum grade of 70%, or
- 1.5 credits in CSC, LIN, PHL, or PSY with a minimum grade average of 70% based on the 1.5 credits. No more than 1.0 credits can be from any ONE of the listed course designators. If more than 1.5 credits have been completed, the grade average will be based on the higher course grades.

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 70% in required courses will not usually be considered for admission. Please note that obtaining this minimum grade average of 70% does not guarantee admission to the program. The pool of applicants varies each year and sets the precedent for the program.

Note:

Students are responsible for checking co- and prerequisites for all courses. Not all courses are offered on a regular basis. A list of approved Cognitive Science courses can be found on the website:

<https://www.uc.utoronto.ca/cognitive-science>. For any questions, please email uc.academicsservices@utoronto.ca.

Completion Requirements:

(8.0 credits)

Where noted below, please consult the Faculty of Arts & Science Course Calendar on prerequisites.

First Year:

CSC108H1/ CSC120H1; LIN102H1 (note: LIN200H1 does not serve as prerequisite for upper year LIN courses)

Second Year:

COG250Y1 (may be taken in Year 1); STA220H1/ PSY201H1; PSY270H1

Second Year and Higher:

- COG341H1/ COG342H1, PHL342H1, PSY290H1
- 3.0 credits from Perception and Attention stream courses
 - PHL232H1; PSY280H1; and 2.0 credits of any of the following: COG260H1/ COG343H1/ COG344H1/ COG345H1/ COG415H1/ COG498H1/ COG499H1/ JLP374H1/ NEW333H1/ BPM333H1/ NEW438H1/ BPM438H1/ PHL340H1/ PHL405H1/ PSY210H1/ PSY312H1/ PSY380H1/ PSY473H1/ PSY475H1/ PSY493H1
 - For those with the appropriate prerequisites: CSC207H1/ CSC320H1/ CSC420H1

Fourth Year: COG401H1/ COG404H1/ COG497Y1/ COG498H1/ COG499H1

Cognitive Science Major - Arts (Thinking and Reasoning Stream) (Arts Program) - ASMAJ1445C

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- COG250Y1 with a minimum grade of 70%, or
- 1.5 credits in CSC, LIN, PHL, or PSY with a minimum grade average of 70% based on the 1.5 credits. No more than 1.0 credits can be from any ONE of the listed course designators. If more than 1.5 credits have been completed, the grade average will be based on the higher course grades.

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 70% in required courses will not usually be considered for admission. Please note that obtaining this minimum grade average of 70% does not guarantee admission to the program. The pool of applicants varies each year and sets the precedent for the program.

Note:

Students are responsible for checking co- and prerequisites for all courses. Not all courses are offered on a regular basis. A list of approved Cognitive Science courses can be found on the website:

<https://www.uc.utoronto.ca/cognitive-science>. For any questions, please email uc.academicsservices@utoronto.ca.

Completion Requirements:

(8.0 credits)

Where noted below, please consult the Faculty of Arts & Science Course Calendar on prerequisites.

First Year:

CSC108H1/ CSC120H1; LIN102H1 (note: LIN200H1 does not serve as prerequisite for upper year LIN courses)

Second Year:

COG250Y1 (may be taken in Year 1); STA220H1/ PSY201H1; PSY270H1

Second Year and Higher:

- COG341H1/ COG342H1, PHL342H1, PSY290H1
- 3.0 credits from Thinking and Reasoning Stream courses:
 - PHL245H1; PSY260H1; and 2.0 credits of any of the following: COG260H1/ COG343H1/ COG344H1/ COG345H1/ COG415H1/ COG498H1/ COG499H1/ JLP374H1/ JLP471H1/ JLS472H1/ JLS473H1/ NEW333H1/ BPM333H1/ NEW438H1/ BPM438H1/ PHL246H1/ PHL340H1/ PHL347H1/ PSY210H1/ PSY312H1/ PSY370H1/ PSY371H1/ PSY372H1/ PSY473H1/ PSY493H1
 - For those with the appropriate prerequisites: CSC207H1/ CSC304H1/ CSC311H1/ CSC384H1/ CSC486H1

Fourth Year: COG401H1/ COG404H1/ COG497Y1/ COG498H1/ COG499H1

Cognitive Science Major - Science (Cognition and the Brain Stream) (Science Program) - ASMAJ1446B

Today's cognitive scientists are more interested than ever before in the way the brain implements the information-processing underpinnings of cognitive mental processes. The study of cognition and the brain is the study, grounded in cognitive neuroscience, of those aspects of brain activity directly relevant to the performance of cognitive functions.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- COG250Y1 with a minimum grade of 70%, or
- 1.5 credits in CSC, LIN, PHL, or PSY with a minimum grade average of 70% based on the 1.5 credits. No more than 1.0 credits can be from any ONE of the listed course designators. If more than 1.5 credits have been completed, the grade average will be based on the higher course grades.

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 70% in required courses will not usually be considered for admission. Please note that obtaining this minimum grade average of 70% does not guarantee admission to the program. The pool of applicants varies each year and sets the precedent for the program.

Note:

Students are responsible for checking co- and prerequisites for all courses. Not all courses are offered on a regular basis. A list of approved Cognitive Science courses can be found on the website:

<https://www.utoronto.ca/cognitive-science>. For any questions, please email uc.academicsservices@utoronto.ca.

Completion Requirements:

(8.0 credits)

Note that some Computer Science courses included below under Streams 1 and 2 have unlisted co- or prerequisites. Please consult the Faculty of Arts and

Science Course Calendar. Those interested in the Science Major are advised to consider also registering for a Computer Science Specialist, Major, or Minor (for Stream 1) or a Human Biology Neuroscience Specialist or Major (for Stream 2).

First Year:

CSC108H1/ CSC120H1 (recommended option); CSC148H1; MAT135H1 and MAT136H1 (or MAT137Y1)

Second Year:

COG250Y1 (may be taken in Year 1); STA220H1/ STA257H1/ PSY201H1; PSY270H1

Second Year and Higher:

- PSY290H1 and PHL342H1
- BIO120H1/ BIO130H1 (may be taken in Year 1), BIO220H1 and 1.5 credits from Cognition and the Brain stream courses:
 - COG260H1/ COG341H1/ COG342H1/ COG343H1/ COG344H1/ COG345H1/ COG415H1/ COG498H1/ COG499H1/ JLP315H1/ JLP374H1/ JLP471H1/ JLS472H1/ JLS473H1/ NEW333H1/ BPM333H1/ NEW438H1/ BPM438H1/ PHL355H1/ PHL357H1/ PSY210H1/ PSY260H1/ PSY280H1/ PSY312H1/ PSY313H1/ PSY316H1/ PSY326H1/ PSY330H1/ PSY331H1/ PSY362H1/ PSY370H1/ PSY371H1/ PSY372H1/ PSY380H1/ PSY390H1/ PSY395H1/ PSY396H1/ PSY397H1/ PSY414H1/ PSY417H1/ PSY425H1/ PSY450H1/ PSY473H1/ PSY474H1/ PSY475H1/ PSY492H1/ PSY493H1/ PSY494H1/ PSY495H1/ PSY496H1/ PSY497H1
 - 1.0 credit must be at the 300-level

Fourth Year:

COG402H1/ COG403H1/ COG404H1/ COG497Y1/ COG498H1/ COG499H1

Cognitive Science Major - Science (Computational Cognition Stream) (Science Program) - ASMAJ1446A

Computational cognition is the interdisciplinary study of the information-processing underpinnings of cognitive mental processes. It seeks an understanding of cognition in mathematical terms and to apply this understanding to debates in artificial intelligence, cognitive psychology, and beyond.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

- COG250Y1 with a minimum grade of 70%, or
- 1.5 credits in CSC, LIN, PHL, or PSY with a minimum grade average of 70% based on the 1.5 credits. No more than 1.0 credits can be from any ONE of the listed course designators. If more than 1.5 credits have been completed, the grade average will be based on the higher course grades.

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 70% in required courses will not usually be considered for admission. Please note that obtaining this minimum grade average of 70% does not guarantee admission to the program. The pool of applicants varies each year and sets the precedent for the program.

Note:

Students are responsible for checking co- or prerequisites for all courses. Not all courses are offered on a regular basis. A list of approved Cognitive Science courses can be found on the website:

<https://www.uc.utoronto.ca/cognitive-science>. For any questions, please email uc.academicsservices@utoronto.ca.

Completion Requirements:

(8.0 credits)

Note that some Computer Science courses included below under Streams 1 and 2 have unlisted co- or prerequisites. Please consult the Faculty of Arts and Science Course Calendar. Those interested in the Science Major are advised to consider also registering for a Computer Science Specialist, Major, or Minor (for Stream 1) or a Human Biology Neuroscience Specialist or Major (for Stream 2).

First Year:

CSC108H1/ CSC120H1 (recommended option);
CSC148H1/ MAT135H1 and MAT136H1 (or MAT137Y1)

Second Year:

COG250Y1 (may be taken in Year 1); STA220H1/ STA257H1/ PSY201H1/ PSY270H1

Second Year and Higher:

- PSY290H1 and PHL342H1

- 2.5 credits from Computational Cognition Stream courses:

- COG260H1/ COG341H1/ COG342H1/ COG343H1/ COG344H1/ COG345H1/ COG415H1/ COG498H1/ COG499H1/ CSC207H1/ CSC304H1/ CSC311H1/ CSC324H1/ CSC384H1/ CSC401H1/ CSC413H1/ CSC420H1/ CSC485H1/ CSC486H1/ JLP315H1/ JLP374H1/ JLP471H1/ LIN102H1/ LIN228H1/ LIN232H1/ LIN241H1/ LIN323H1/ LIN331H1/ LIN341H1/ NEW333H1/ BPM333H1/ NEW438H1/ BPM438H1/ PHL240H1/ PHL245H1/ PHL246H1/ PHL345H1/ PHL347H1/ PHL348H1/ PHL349H1/ PHL355H1/ PSY210H1/ PSY220H1/ PSY230H1/ PSY260H1/ PSY270H1/ PSY280H1/ PSY290H1/ PSY312H1/ PSY305H1/ PSY316H1/ PSY330H1/ PSY331H1/ PSY362H1/ PSY370H1/ PSY371H1/ PSY372H1/ PSY378H1/ PSY379H1/ PSY380H1/ PSY414H1/ PSY475H1
- No more than 1.5 credits of the 2.5 credits required from this list of options may come from any single 3-letter course designator, except for CSC courses.
- For CSC courses, a minimum of 1.0 credit and up to 2.0 credits must be chosen. At least 1.0 credit of the 2.5 credits must be at the 300-level.

Fourth Year:

COG402H1/ COG403H1/ COG404H1/ COG497Y1/ COG498H1/ COG499H1

Public Health Major (Arts Program) - ASMAJ2086

The Major in Public Health explores how health is shaped by the circumstances in which people are born, grow up, live, work, and age, and how these in turn connect to a wider set of environmental, social, cultural, economic, and political forces.

Understanding health requires knowledge from a range of disciplines and sectors: Public Health offers a stimulating multidisciplinary environment that challenges students to think about health – both locally and globally – in new ways.

Enrolment Requirements:

The Health Studies Major (ASMAJ2085) was last available for enrolment during the second round of program enrolment in Summer 2024. The program completion requirements for the Health Studies Major can be found in the [archived 2023-24 Academic Calendar](#).

This is a limited enrolment program. Note there are different options depending on whether a student has completed between 4.0 and 8.5 credits, or 9.0 or more credits.

Variable Minimum Grade Average

A minimum grade average in required courses is needed for entry, and this minimum changes each year depending on available spaces and the number of applicants. The following courses must be completed:

For students who have completed between 4.0 and 8.5 credits:

- 1.5 credits from: ANT100Y1/ BIO130H1/ CSB201H1/ GGR107H1/ HPS100H1/ HPS110H1/ HPS120H1/ PCL102H1/ PHS100H1/ PHS103H1/ PHL100Y1/ PHL101Y1/ POL101H1/ PSY100H1/ SOC100H1/ TRN135Y1/ UNI103H1/ WGS160Y1. If more than 1.5 credits have been completed, the minimum grade average will be based on the higher course grades.

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 70% in required courses will not usually be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program.

For students who have completed 9.0 credits or more:

- 1.5 credits from: ANT100Y1/ BIO130H1/ CSB201H1/ GGR107H1/ HPS100H1/ HPS110H1/ HPS120H1/ HST209H1/ HST211H1/ HST250H1/ HST253H1/ PCL102H1/ PHL100Y1/ PHL101Y1/ PHS100H1/ PHS103H1/ POL101H1/ PSY100H1/ SOC100H1/ TRN135Y1/ UNI103H1/ WGS160Y1. If more than 1.5 credits have been completed, the minimum grade average will be based on the higher course grade.

To ensure that students admitted to the program will be successful, applicants with a grade average lower than 70% in required courses will not usually be considered for admission. Please note that obtaining this minimum grade average does not guarantee admission to the program.

Completion Requirements:

(8.0 credits, including 2.0 credits at the 400-level.)

Year 1 (1.5 credits)

1. PHS103H1/ PHS100H1

2. 1.0 credit from the following courses related to human systems: ANT100Y1/ BIO130H1/ CSB201H1/ ECO101H1/ ECO105Y1/ GGR107H1/ HPS100H1/ HPS110H1/ HPS120H1/ PHL100Y1/ PHL101Y1/ POL101H1/ PSY100H1/ SOC100H1/ TRN135Y1/ UNI103H1/ WGS160Y1

Year 2 (2.0 credits)

3. HST209H1, HST211H1, HST253H1

4. 0.5 credit from: HST250H1/ STA220H1/ ECO220Y1/ ECO227Y1/ GGR270H1/ PSY201H1/ SOC300Y1/ STA261H1/ STA238H1/ STA248H1/ STA288H1/ EEB225H1/ STAB22H3/ STAB57H3/ STA215H5/ STA220H5/ ECO220Y5/ ECO227Y5/ STA258H5/ STA260H5

Years 3 and 4 (4.5 credits)

5. HST310H1, HST410H1, HST480H1

6. 0.5 credit from the following courses related to the Ethics and Epistemologies of Health Research: HMB406H1/ HPS240H1/ HPS318H1/ HPS346H1/ INS200H1/ PHL281H1/ PHL382H1/ PHL384H1/ PHL380H1/ PHL383H1/ PHL440H1

7. 0.5 credit from courses related to Public Health Equity: HMB303H1/ HST305H1/ HST405H1/ HST411H1/ JSU237H1/ INS340Y1/ INS350H1/ SDS345H1/ SDS425H1/ JNS450H1/ WGS273H1/ WGS373H1/ WGS396H1/ WGS442H1

8. 0.5 credit from courses related to Public Health Domains/Specializations: ANT205H1/ ANT357H1/ ANT435H1/ HST308H1/ HMB342H1/ HST373H1/ HST330H1/ HST306H1/ HST400Y1/ HST407H1/ HST409H1/ HST440H1/ HST451Y1/ HST464H1/ HMB203H1/ IRE378H1/ SOC246H1/ SOC363H1

9. The remaining 1.5 credits can include any courses not previously taken to fulfill the preceding requirements, or any of the following: ANA300Y1/ ANT208H1/ ANT345H1/ ANT348H1/ ANT358H1/ ANT434H1/ ANT458H1/ ANT460H1/ ANT474H1/ ECO369H1/ ECO402H1/ EEB324H1/ ENV430H1/ GGR340H1/ GGR433H1/ HIS423H1/ HIS498H1/ HMB202H1/ HMB322H1/ HMB323H1/ HMB433H1/ HMB462H1/ HPS319H1/ HPS370H1/ HPS371H1/ HST306H1/ HST307H1/ HST309H1/ HST350H1/ INS205H1/ JFP450H1/ JNH350H1/ CSE344Y1/ PHL380H1/ PHL381H1/ PHS300H1/ PSY333H1/ SOC204H1/ SOC243H1/ SOC309H1/ SOC316H1/ SOC364H1/ SOC412H1/ SOC488H1/ STA221H1/ TRN235H1/ TRN236H1/ WGS367H1

University College Courses

UC First-Year Foundations

UNI197H1 - Hamilton: Musical and History

Hours: 24S

This course examines the American revolution and its reception in the musical "Hamilton." The American revolution generated multiple stories that included and excluded actors, peoples, perspectives, and more. This course delves into the American revolution and the diversity of those engaged in it and affected by it. The songs, performances, and reception of the musical "Hamilton" are a key resource for exploring the events and role of the American Revolution. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

CDN197H1 - Inventing Canada

Hours: 24S

This course explores the ways that Canadian history and identity have been commemorated, interpreted and experienced, now and in the past. The course focuses in particular on who has been included or excluded in commemorative efforts over time. Key topics include representations of women, Indigenous peoples, and political figures on screen and through public installations like museum exhibits, plaques and statues. Case studies highlighting a range of interpretive media will encourage students to work with and discuss a range of primary and secondary sources, build critical thinking and academic writing skills. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

UNI198H1 - Why Go to University? The Changing Role and Purpose of Higher Education

Hours: 24S

Is higher education about job preparation or about giving students an opportunity to learn about themselves and the world around them? Can higher education in Canada achieve both these aims? This course engages with the

spirited conversations and scholarly debates about the ideals of a liberal arts education and how these connect with ancient and contemporary arguments about citizenship. We explore the impact on higher education of globalization and what some call the "corporatization" of universities. Students will be encouraged to think, read, research and write about various models of higher education and explore questions suggested by these debates. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

CDN198H1 - Canada, Colonialism and Settler Relations

Hours: 24S

A First Year Foundations seminar focused on exploring Canada's colonial history and recent efforts to enact appropriate settler relations through an interdisciplinary lens. Topics will include contemporary land claims and treaty-making processes, the Royal Commission on Aboriginal Peoples, governmental apologies for the mistreatment of Indigenous peoples, the Truth and Reconciliation Commission, land acknowledgements, practices of allyship through social movement such as Idle No More, and efforts to influence Canada's overseas mining practices. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

CDN199H1 - Canada- Hong Kong Migration

Hours: 24S

This course surveys the effects of migrations and cultural connections between Hong Kong and Canada from the 1960s. Students will discuss and analyze the impact of migrations, and study the connection between the two locations from the perspectives of history, culture and literature, politics and democracy, economic and financial development and the network of people and community. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

JRC199H1 - Truths & Reconciliations in Canada

Hours: 24S

In this course, we examine the idea of reconciliation among Indigenous and Canadian nations by considering the complicated role of religion and spirituality in “truth and reconciliation.” Specifically, residential schools for Indigenous children were a collaboration of church and state that violently broke the spirit and intent of the treaties—or sacred promises—made between the Crown and Indigenous nations. The course will set the 2015 Truth & Reconciliation Commission of Canada in a longer history of twentieth-century commissions, reports, and petitions in which both Indigenous and Canadian people (and some churches) named the cultural and spiritual genocide of residential schools and called for action. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

JCI199H1 - Italians in Canada: Histories, Journeys, Struggles, Successes

Hours: 24L

This course explores the presence of people from the Italian peninsula in what is now known as Canada. The course begins with discussions on Giovanni Caboto's and other explorers' journeys to then focus on contemporary Italian-Canadian communities. This course provides students with the critical tools necessary to understand various historical, linguistic, culinary, spiritual, political, and creative elements of Italian-Canadian identity and life. Students of both Italian and non-Italian heritage are most welcome in this course, which is taught in English. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

UNI199H1 - The Construction of Race in America: A History

Hours: 24S

The course will explore the origins of racial categories in America. Drawing on primary sources such as memoirs, film, and government records as well as writings by scholars, we will examine how beliefs about these categories changed over time and with what consequences for the unfolding of American history. Arriving at the present day, we will consider such contradictory developments as the accelerating influence of Black Lives Matter and the headline-grabbing white nationalism on display at the “Unite the Right” rally in Charlottesville, Virginia, August, 2017. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

UC One

UNI101H1 - Citizenship in the Canadian City

Previous Course Number: UNI101Y1

Hours: 36S

Who belongs? Who governs? Who decides? In this course, you will examine the concepts of citizenship, public space, political membership, civic responsibility, and belonging. You will address topics such as Indigenous sovereignty claims, urban multiculturalism, public housing, and greening the city. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

UNI102H1 - Performing the City I

Previous Course Number: UNI102Y1

Hours: 36S

In this course we learn about different practices of performative engagement with the city and experiment with them through exercises and creative activities. The goal is to gain, through this mode of embodied engagement with the city, a critical understanding of urban space as a diverse social, cultural, and physical environment. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

UNI103H1 - Gradients of Health in an Urban Mosaic

Previous Course Number: UNI103Y1

Hours: 36S

In this course, you will examine how Toronto's varied communities access and use health care, and how they may encounter barriers in doing so. You will study how economic disparities, shifting demographics, and government policies affect health policy and the right to access resources. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

UNI104H1 - Sex in the City

Previous Course Number: UNI104Y1

Hours: 36S

You will learn about the sexual politics of the city and how cities and their neighbourhoods become sexualized and desexualized spaces. In *Sex in the City*, you will examine what “sex” means to Toronto’s varied, multicultural communities by looking at urban space, cultural productions, law enforcement, safety and health resources and more. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

UNI106H1 - Performing the City II

Previous Course Number: UNI102Y1

Hours: 36S

Further exploration of connections between the performing arts, urban spaces, and cultural diversity; complementing [UNI102H1](#). How does theatrical performance affect how people perceive the city? What are the alternatives to established theatres, and how does community activism inform performing arts in Toronto? Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

Canadian Studies

CDN202H1 - Aspects of Québec Culture

Hours: 24S

An exploration of modern Québec culture as expressed in literature and the performing arts. Through a selection of internationally-known entertainers, we examine form, artistic innovation, communication of information and knowledge, and spectatorship. Novels and plays provide key elements such as tradition and historical context.

Breadth Requirements: Creative and Cultural Representations (1)

CDN205H1 - Topics in Canadian Studies I

Hours: 24L

A focused introduction to specific issues in Canadian culture and society. Content will vary from year to year. Specific course information will be available on the Canadian Studies website at www.uc.utoronto.ca/canadianstudies.

CDN218H1 - Voices in Canadian Writing

Hours: 24S

A study of the variety of voices in Canadian fiction with a focus on contemporary writers. Issues such as marginalization, migration, diaspora and the formulation of the Canadian canon are discussed.

Breadth Requirements: Creative and Cultural Representations (1)

CDN221H1 - Culture and the Media in Canada

Hours: 24L

An exploration of the encounter between culture and mass communication in Canadian society. The course considers the role of major cultural institutions such as the CBC, the NFB, and their granting bodies. The emergence of digital media and its relationship to mass media is also addressed.

Breadth Requirements: Creative and Cultural Representations (1)

CDN240H1 - Italian Canadian Studies

Hours: 24L

An interdisciplinary course that examines the social, economic, and political forces and events that have shaped the Italian Canadian experience. Topics include initial and subsequent settlement patterns including suburbanization, identity formation, education, mobility, work, media, multiculturalism, transnationalism, and political participation and representation. The course interrogates the complexities of the social and cultural interactions of Italian Canadians in the context of the changing demography of Canada.

Recommended Preparation: [CDN267H1](#), [CDN268H1](#)

Breadth Requirements: Society and its Institutions (3)

JCI250H1 - Italian Canadian Communities

Hours: 24S

This course examines the past and present settlement patterns of those of Italian descent in Canada, in rural areas and cities, including increasing suburbanization. Students will address issues such as work and employment and political participation. Challenges and opportunities will be examined, with respect to issues such as migration, community-building, belonging, and discrimination.

Breadth Requirements: Society and its Institutions (3)

CDN267H1 - Canadian Nationalisms

Hours: 24L

A critical examination of contemporary forms of Canadian nationalism. This interdisciplinary course will interrogate national formations across theoretical works, policy documents, and cultural representations. Students will address the ways that nationalist discourses constitute difference, especially with respect to race, ethnicity, gender, and sexuality.

Breadth Requirements: Creative and Cultural Representations (1)

CDN268H1 - Canada and Globalization

Hours: 36L

Students examine the impact of contemporary globalization on Canada, and for Canada's place in the world. The course is interdisciplinary in its approach and addresses globalization from a wide range of perspectives, including mobility, trade, urbanization, health, religion, environmental change, technology, communications, and the arts.

Breadth Requirements: Society and its Institutions (3)

CDN280H1 - Canadian Jewish History

Hours: 24L

This course focuses on initial settlement patterns of Jews in Toronto and elsewhere, community growth including suburbanization, and contemporary challenges such as anti-Semitism and assimilation.

Breadth Requirements: Society and its Institutions (3)

CDN305H1 - Topics in Canadian Studies II

Hours: 24L

An in-depth study of selected questions in contemporary Canadian culture and society. Content will vary from year to year. Specific course information will be available on the Canadian Studies website at www.uc.utoronto.ca/canadianstudies/.

CDN307H1 - Asian Cultures in Canada

Hours: 24S

An exploration of the cultural histories and creative productions of a wide range of Asian communities in Canada. Experts in specific areas - literature, dance, drama, film - will be invited to present their work.

Recommended Preparation: [CDN267H1](#), [CDN268H1](#)
Breadth Requirements: Creative and Cultural Representations (1)

JUG320H1 - The Canadian Wilderness

Hours: 24L

The idea of wilderness permeates narratives of Canadian national identity, while policy-makers seek to manage and contain natural areas. This course compares and contrasts historical and contemporary wilderness narratives in literature, painting and film with policies in areas such as conservation, urban planning, land claims and tourism.

Recommended Preparation: 8.0 credits
Breadth Requirements: Thought, Belief and Behaviour (2)

JUG325H1 - Landscapes of Violence in Canada

Hours: 24L

This course examines how violence is enacted in Canada, at various scales, and across domestic, urban, national, and international landscapes. We will interrogate what is meant by violence; examine its colonial, racial and

patriarchal dimensions; explore the impact on people and communities; and attend to forms of resistance and repair.

Recommended Preparation: [CDN267H1](#), [CDN268H1](#)

Breadth Requirements: Society and its Institutions (3)

CDN325H1 - Asian Canadian Space & Place

Hours: 24L

A comprehensive examination of how Asian Canadian communities shape urban and suburban environments. Explore how urban planning and peoples' local decisions interact to create space, place, and culture.

The course applies a multidisciplinary lens, with an emphasis on culture and heritage, place and identity formation, diasporas, multiculturalism, and nationalism.

Prerequisite: 5.0 credits. Students who do not meet the prerequisite are encouraged to contact the instructor.

Recommended Preparation: [CDN267H1](#)/ [CDN268H1](#)

Breadth Requirements: Society and its Institutions (3)

JSU325H1 - Queerly Canadian

Hours: 36L

This course focuses on Canadian literary and artistic productions that challenge prevailing notions of nationality and sexuality, exploring not only how artists struggle with that ongoing Canadian thematic of being and belonging, but also celebrate pleasure and desire as a way of imagining and articulating an alternative national politics.

Prerequisite: [SDS255H1](#)/ [SDS256H1](#)/ [CDN267H1](#)/ [CDN268H1](#). Students who do not meet the prerequisites are encouraged to contact the Department.

Breadth Requirements: Creative and Cultural Representations (1)

CDN335H1 - Black Canadian Studies

Hours: 24S

An interdisciplinary course that interrogates the constitution of Blackness in Canada. Students will study race and ethnic relations, alongside other identity formations such as class, gender and sexuality. Topics to be addressed include media, education, law, immigration and mobility, urbanism, work, political representation and the arts.

Recommended Preparation: [CDN267H1](#), [CDN268H1](#)

Breadth Requirements: Society and its Institutions (3)

CDN340H1 - The History of Canadian-U.S. Relations

Hours: 24L

Over time, Canadians and Americans have developed distinct identities and cultures, but their histories have always been closely linked. This course examines the complex interrelationship between Canada and the United States, from the colonial period through the present day, especially its political, cultural, and indigenous dimensions.

Prerequisite: 0.5 CDN credit. Students who do not meet the prerequisite are encouraged to contact the instructor.

Exclusion: [CDN305H1](#) (Canadian Topics II: The History of Canadian-U.S. Relations)

Breadth Requirements: Society and its Institutions (3)

JCI350H1 - Italian Canadian Culture and Identity

Hours: 24S

This course examines the contributions of Canadians of Italian descent to arts, culture, identity and heritage in Canada, with attention to the diversity of the community with respect to issues such as language, religion, gender, class, sexuality, etc. A core concept addressed by the course is immigration, whether from the experiences of migrants themselves or later generations.

Recommended Preparation: [JCI250H1](#)/ [ITA233H1](#)

Breadth Requirements: Society and its Institutions (3)

CDN355H1 - Digital Media, Digital Makers

Hours: 24S

This course is an introduction to Digital Humanities interdisciplinary research and practice relevant to Canadian Studies broadly. Working with a range of digital tools and platforms for text analysis, story mapping, data visualization, and digital curation, student projects will engage critically and creatively with theoretical and practical questions encountered in digital knowledge production in different disciplines (Humanities and Social Sciences). No prior tech experience required.

Recommended Preparation: CDN267H1, CDN268H1
Breadth Requirements: Society and its Institutions (3)

CDN365H1 - The Canadian Arctic

Hours: 24S

This course surveys topics related to the Canadian Arctic. Through a critical interdisciplinary lens, the course looks at a broad set of issues including discovery and history, the environment and climate change, economic and resource development, sovereignty and security, social conditions, governance, and First Nations, Inuit, and Metis perspectives.

Prerequisite: 4.0 credits or 1.0 credit in Canadian Studies
Exclusion: CDN406H1 (Topics in Canadian Studies III: Canadian Arctic Policy Development and Inuit Recognition)
Recommended Preparation: CDN267H1, CDN268H1
Breadth Requirements: Society and its Institutions (3)

CDN367H1 - Canadian Pluralism

Hours: 24S

Students will examine the complexities of social and cultural interaction in the context of changing Canadian demographics. This course compares and contrasts policies regarding Indigenous rights, migration, multiculturalism, and citizenship with contemporary cultural narratives in literature, painting and film.

Prerequisite: CDN267H1/ CDN268H1 or permission of instructor
Breadth Requirements: Creative and Cultural Representations (1)

CDN368H1 - Canada's Borders

Hours: 24S

The Canadian border is being reshaped by the increasing transnational movement of people, goods and ideas. Students will examine border issues relating to mobility, trade, and security from a wide range of interdisciplinary perspectives, from public policy to contemporary media, such as TV, films, and novels.

Prerequisite: CDN267H1/ CDN268H1 or permission of instructor
Breadth Requirements: Society and its Institutions (3)

CDN370H1 - Special Topics in Canadian Studies

Hours: 24S

An in-depth study of selected questions in contemporary Canadian culture and society. Content will vary from year to year. Specific course information will be available on the Canadian Studies website at www.uc.utoronto.ca/canadianstudies/.

Prerequisite: 8.0 credits completed.

COG370H1 - Special Topics in Cognitive Science

Hours: 24S

An in-depth study of selected questions in the field of Cognitive Science. Content will vary from year to year. Specific course information will be available on the Cognitive Science website at <https://www.uc.utoronto.ca/cognitive-science>

Prerequisite: Completion of 8.0 credits.

CDN380H1 - Socio-Cultural Perspective of the Canadian Jewish Community

Hours: 24L

This course examines: the relationship between prominent Canadians who happen to be Jews and those whose works are founded in Jewish identity; the diversity of the community on the basis of religion, language, class, ideology, etc.; contributions to the arts and scholarship; and the role and contribution of Jewish women.

Breadth Requirements: Creative and Cultural Representations (1)

CDN385H1 - Re-Imagining Canada: Creative Visions of Our Past, Present, and Futures

Hours: 24S

Artists and writers are re-imagining Canada, exploring alternate pasts, presents, and futures, often critiquing systemic inequities by positing "what ifs" of resistance and renewal, while reclaiming agency, voice, and power for those who are disadvantaged in society. This course will examine these re-imaginings across various media such

as fiction, poetry, graphic novels, films, multimedia installations, performance art, paintings, virtual reality works, and video games. Examples will be drawn from a wide variety of genres such as speculative fiction, Afrofuturism, Indigenous arctic horror, trans, queer, Indigenous and Indigiqueer perspectives.

Prerequisite: Completion of 4.0 credits

Recommended Preparation: CDN267H1, CDN268H1

Breadth Requirements: Creative and Cultural Representations (1)

CDN390H1 - Chinese Canadian Studies

Hours: 24S

This course examines socio-cultural, political and economic aspects of Chinese communities in Canada. It explores how the study of Chinese Canadians challenges and augments our understanding of issues such as immigration and diaspora, multiculturalism, and race and ethnicity.

Prerequisite: 4.0 credits. Students who do not meet the prerequisite are encouraged to contact the Program Director.

Recommended Preparation: CDN230H1

Breadth Requirements: Society and its Institutions (3)

CDN395H1 - Independent Study in Asian Canadian Studies

An opportunity to write an independent research paper in Asian Canadian Studies under direction of a faculty member. Students wishing to take this course must have their essay proposal and supervisor approved by the Canadian Studies Program Director. Students must submit an application form that includes a written proposal and confirms that a faculty member has agreed to supervise. Applications must be submitted to the UC Programs Office (UC 173) for approval by the Program Director. Applications are due before the first day of course enrolment. Application form is available at the University College website at <https://www.uc.utoronto.ca/canadian-studies/courses>. Not eligible for CR/NCR option.

Prerequisite: 10.0 credits, a minimum cGPA of 3.0, and an application form that includes a written proposal confirming a faculty member has agreed to supervise.

CDN405H1 - The University in Canada

Hours: 24S

This seminar course will address the role of universities in Canadian society and in the lives of Canadians. Students will explore both contemporary issues in Canadian higher education and consider the historical contexts from which they emerged.

Prerequisite: CDN367H1/ CDN368H1 or permission of instructor

Recommended Preparation: CDN267H1, CDN268H1, CDN367H1, CDN368H1

Breadth Requirements: Society and its Institutions (3)

CDN406H1 - Topics in Canadian Studies III

Hours: 24S

An in-depth study of selected questions in contemporary Canadian culture and society. Content will vary from year to year. Specific course information will be available on the Canadian Studies website at www.uc.utoronto.ca/canadianstudies.

Prerequisite: 4.0 credits or 1.0 credit in Canadian Studies

Recommended Preparation: CDN267H1, CDN268H1

Breadth Requirements: Society and its Institutions (3)

CDN420Y1 - Senior Essay

Hours: 48S

Students select an appropriate research topic and, in consultation with the Program Director, make arrangements with a suitable supervisor. Preferably, research projects must be approved by the supervisor and by the Director of the Canadian Studies Program by April of the preceding academic year. Students meet periodically during the year in seminar to participate in peer evaluations of: statement of research, literature review, methods of analysis, and to share reports of progress in research. Normally open only to Majors and Specialists in the Canadian Studies program. Not eligible for CR/NCR option.

Students must submit an application form that includes a written proposal and confirms that a faculty member has agreed to supervise. Applications must be submitted to the UC Programs Office (UC 173) for approval by the Program Director. Applications are due before the first day of course enrolment. Application form is available at the University College website at <https://www.uc.utoronto.ca/canadian-studies/courses>.

Prerequisite: 15.0 credits and a minimum cGPA of 3.0

CDN425H1 - Independent Research in Canadian Studies

An opportunity to write a substantial research paper in Canadian Studies that integrates research methodologies and conceptual frameworks developed over the student's course of study. Students must have their topic and supervisor approved by the Canadian Studies program director. Not eligible for CR/NCR option.

Students must submit an application form that includes a written proposal and confirms that a faculty member has agreed to supervise. Applications must be submitted to the UC Programs Office (UC 173) for approval by the Program Director. Applications are due before the first day of course enrolment. Application form is available at the University College website at <https://www.uc.utoronto.ca/canadian-studies/courses>.

Prerequisite: 15.0 credits and a minimum cGPA of 3.0

CDN430Y1 - Senior Seminar: Special Topics in Canadian Studies

Hours: 48S

An upper level seminar. Not eligible for CR/NCR option.

Prerequisite: [CDN367H1](#), [CDN368H1](#) or permission of the Director of the Canadian Studies program

CDN435Y1 - Active Citizenship in a Canadian Context

Hours: 48S

This course draws from theoretical works to critically examine the experiences of citizenship of various communities in Canada. A service learning component is incorporated so that students can themselves engage in active citizenship. The course develops extra-curricular expertise that can contribute to a student's professional CV.

Prerequisite: 9.0 credits and an application. See <http://www.uc.utoronto.ca/courses-offered-canadian-studies-program> for details.

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

CDN470H1 - Special Topics in Canadian Studies

Hours: 24S

An in-depth study of selected questions in contemporary Canadian culture and society. Content will vary from year to year. Specific course information will be available on the Canadian Studies website at www.uc.utoronto.ca/canadianstudies/.

Prerequisite: 12.0 credits completed.

COG470H1 - Special Topics in Cognitive Science

Hours: 24S

An in-depth study of selected questions in the field of Cognitive Science. Content will vary from year to year. Specific course information will be available on the Cognitive Science website at <https://www.uc.utoronto.ca/cognitive-science>

Prerequisite: Completion of 12.0 credits.

COG471H1 - Special Topics in Cognitive Science

Hours: 24S

An in-depth study of selected questions in the field of Cognitive Science. Content will vary from year to year. Specific course information will be available on the Cognitive Science website at <https://www.uc.utoronto.ca/cognitive-science>

Cognitive Science

COG250Y1 - Introduction to Cognitive Science

Hours: 78L

An introduction to the problems, theories and research [strategies central to the interdisciplinary field focusing on the nature and organization of the human mind and other cognitive systems. Interrelations among the philosophical, psychological, linguistic and computer science aspects of the field are emphasized.

Breadth Requirements: Thought, Belief and Behaviour (2)

COG260H1 - Data, Computation, and the Mind

Hours: 24L/12P

How does the human mind work? We explore this question by analyzing a range of data concerning such topics as human rationality and irrationality, human memory, how objects are represented in the mind, and the relation of language and cognition. This class provides critical thinking and practical computational skills that will allow students to work with data in cognitive science and related disciplines.

Prerequisite: CSC108H1/ CSC148H1

Corequisite: COG250Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

COG341H1 - Issues in Cognitive Science I: Attention, Perception, and Consciousness

Hours: 36L

An examination of core topics in cognitive science building on introductions in COG250Y1. Typical topics include: perception and attention; concepts; imagery; consciousness.

Prerequisite: COG250Y1 and one of PSY270H1/ PHL342H1

Breadth Requirements: Thought, Belief and Behaviour (2)

COG342H1 - Issues in Cognitive Science II: Concepts, Theories of Mind, and Cognitive Evolution

Hours: 36L

An examination of core topics in cognitive science building on introductions in COG250Y1. Typical topics include: concepts; theories of mind; cognitive evolution.

Prerequisite: COG250Y1 and one of PSY270H1/ PHL342H1

Breadth Requirements: Thought, Belief and Behaviour (2)

COG343H1 - Issues in Cognitive Science III: Computational Cognition

Hours: 24L/12P

An examination of core topics in cognitive science building on introductions in COG250Y1. Typical topics include: computational models of cognition and learning, natural language processing, computer intelligence.

Prerequisite: COG260H1, CSC148H1, STA220H1/ PSY201H1

Corequisite: COG250Y1

Breadth Requirements: The Physical and Mathematical Universes (5)

COG344H1 - Issues in Cognitive Science IV: Language and Communication

Hours: 36L

An examination of core topics in cognitive science building on introductions in COG250Y1. Typical topics include: language and cognition; language acquisition; theories of meaning; pragmatics.

Prerequisite: COG250Y1 and one of either LIN232H1/ LIN241H1 or JLP315H1/ JLP374H1.

Breadth Requirements: Thought, Belief and Behaviour (2)

COG345H1 - Issues in Cognitive Science V: Cognitive Science and Society

Hours: 36L

An examination of core topics in cognitive science building on introductions in COG250Y1. Topics include central moral, social, and political questions both relevant to and raised by cognitive science research.

Prerequisite: COG250Y1 and one of PSY270H1/ PHL342H1

Breadth Requirements: Society and its Institutions (3)

COG401H1 - Seminar in Cognitive Science

Hours: 36S

Advanced treatment of cognitive science topics for arts majors. Possible topics include: concepts, consciousness, the mind-body problem, cognitive science and the arts.

Prerequisite: COG250Y1; PHL342H1; 14.0 credits

Exclusion: COG402H1, COG403H1

Breadth Requirements: Thought, Belief and Behaviour (2)

COG402H1 - Seminar in Cognitive Science

Hours: 36S

Advanced treatment of cognitive science topics such as neuroscientific theories of consciousness, rationality and modelling of cognitive processes.

Prerequisite: COG250Y1; PSY270H1; 14.0 credits

Exclusion: COG401H1; COG403H1

Breadth Requirements: Thought, Belief and Behaviour (2)

COG403H1 - Seminar in Cognitive Science

Hours: 36S

Advanced treatment of cognitive science topics, including the application of core ideas from probability theory, information theory, statistics, and machine learning to modelling human cognition and artificial intelligence.

Prerequisite: 14.0 credits, CSC148H1, COG250Y1, COG260H1, (MAT135H1, MAT136H1)/ MAT137Y1, 0.5 credit in statistics

Exclusion: COG401H1, COG402H1

Breadth Requirements: The Physical and Mathematical Universes (5)

COG404H1 - Seminar in Cognitive Science

Hours: 36S

Advanced treatment of cognitive science topics, including language processes and language representation, productions and comprehension, language acquisition, and language and theory of mind, pragmatics, reference and context.

Prerequisite: COG250Y1; JLP315H1/ JLP374H1; LIN232H1/ LIN241H1; 14.0 credits.

Exclusion: COG401H1; COG402H1; COG403H1

Breadth Requirements: Thought, Belief and Behaviour (2)

COG415H1 - Cognitive Science in Practice

Hours: 18L/15P

This course provides COG students with the opportunities to practice quantitative and qualitative evaluation and assessment methods in real world situations and juxtapose theory with practice. Placement activities will ground topics such as problem solving, logistics, decision making, etc., through practical application, individual and group / in-class critical reflection.

Prerequisite: COG250Y1, COG341H1/ COG342H1, PSY370H1

Breadth Requirements: Thought, Belief and Behaviour (2)

COG497Y1 - COG Independent Study

Advanced Independent Study. Not eligible for CR/NCR option.

Students must submit an application form that includes a written proposal and confirms that a faculty member has agreed to supervise. Applications must be submitted to the UC Programs Office (UC 173) for approval by the Program Director. Applications are due before the first day of course enrolment. Application form is available at the University College website at <https://www.uc.utoronto.ca/cognitive-science-courses>.

Prerequisite: 15.0 credits and a minimum cGPA of 3.0

Exclusion: (COG498H1, COG499H1)

COG498H1 - Independent Study

Advanced Independent Study. Not eligible for CR/NCR option.

Students must submit an application form that includes a written proposal and confirms that a faculty member has agreed to supervise. Applications must be submitted to the UC Programs Office (UC 173) for approval by the Program Director. Applications are due before the first day of course enrolment. Application form is available at the University College website at <https://www.uc.utoronto.ca/cognitive-science-courses>.

Prerequisite: 15.0 credits and a minimum cGPA of 3.0

COG499H1 - Individual Study in Cognitive Science

Advanced Independent Study. Not eligible for CR/NCR option.

Students must submit an application form that includes a written proposal and confirms that a faculty member has agreed to supervise. Applications must be submitted to the UC Programs Office (UC 173) for approval by the Program Director. Applications are due before the first day of course enrolment. Application form is available at the University College website at <https://www.uc.utoronto.ca/cognitive-science-courses>.

Prerequisite: 15.0 credits and a minimum cGPA of 3.0

Health Studies

PHS103H1 - Introduction to Public Health

Hours: 24L/24T

This course introduces students to basic Canadian public health-related concepts, significant aspects of the historical development of public health in Canada, and a selection of topics illustrating the broad and evolving nature of this field. In addition, it helps students explore the contributions that various disciplines/fields offer to public health in Canada.

Exclusion: PHS100H1

Breadth Requirements: Society and its Institutions (3)

HST209H1 - Introduction to Social Determinants of Health

Hours: 36L

A multidisciplinary approach to understanding non-medical factors that influence health, health equity, and primary health care. Themes include critical discussion of the measurements of health outcomes and the socioeconomic and political factors that affect health inequities, including neglected and marginalized populations in Canada and globally.

Breadth Requirements: Society and its Institutions (3)

HST211H1 - Health Policy in Canada

Hours: 24L

Introduces students to health policy in Canada, with a particular focus on the social determinants of health, and on how to improve health through policy advocacy. Examines the policy making process in the Canadian context, and the development of health policy in Canada. Explores current debates about health issues.

Breadth Requirements: Society and its Institutions (3)

JSU237H1 - Introduction to HIV/AIDS: Health, Sexuality and Gender

Hours: 24L

A critical examination of the HIV/AIDS global pandemic from a multidisciplinary perspective and with an emphasis on sexuality. The course examines the basic biology of HIV/AIDS and then covers social, historical, political, cultural, gender, and public health aspects of HIV/AIDS. Attention is given to the distinct features of vulnerable and marginalized populations, prevention, treatment, drug development, and access to medicines.

JSU237H1 is particularly intended for students in the Health Studies and/or Sexual Diversity Studies programs.

Breadth Requirements: Society and its Institutions (3)

HST250H1 - Introduction to Quantitative Methods in Public Health

Hours: 36L

This course offers students in Health Studies a basic understanding of the principles of quantitative research methods in health research, including research design, data collection, and analyses. Considerations such as validity, generalizability, and representativeness of data will be addressed. Topics may include experimental, comparative, and epidemiological approaches.

Breadth Requirements: Society and its Institutions (3)

HST253H1 - Introduction to Qualitative Methods in Public Health

Hours: 36L

This course offers Health Studies students a basic understanding of the principles of qualitative health research - which are critical to contextualizing the health practices, experiences, and outcomes amongst diverse populations. Qualitative research methods will examine research design, data collection, and interpretation in

using various methodological approaches such as interviews, focus groups, observation, and case studies.

Recommended Preparation: HST250H1

Breadth Requirements: Society and its Institutions (3)

PHS300H1 - HIV Prevention Research

Hours: 24L

This course examines HIV prevention research across the full spectrum of sciences concerned with prevention of HIV and sexual health, including basic science, clinical science, epidemiology, behavioural science, social science, and legal, policy, economic analysis, and cultural theory. Examples are borrowed from efforts across the globe.

The course highlights prevention research related to key populations at risk of HIV infection and transmission. The course focuses on challenges and issues, with the goal of stimulating critical thinking and engagement with topics. Some material will be presented by Guest Lecturers who are experts in the areas, allowing students to learn from and interact with these experts and to hear about their current research as well as their career paths.

It is expected that at the end of this course students will have an advanced appreciation of the history and future and underlying values and ethics of effective HIV prevention research, including future possibilities and challenges. One ancillary aim is to encourage students to compare and contrast HIV Prevention with prevention research in adjacent areas (e.g., HCV, HPV).

Recommended Preparation: STA220H1 or equivalent

Breadth Requirements: Society and its Institutions (3)

HST305H1 - Perspectives in Health, Gender, Ethnicity and Race

Hours: 24L

This course will examine historical and contemporary health disparities with respect to gender, ethnicity, and race. Other intersectional issues such as Colonialism, class, sexuality, and the urban/rural divide will also be considered as they to social determinants of health. Attention will be focused on examples of disparities that perpetuate and exacerbate current epidemiological challenges for underrepresented populations in Canada and globally.

Prerequisite: HST250H1/ STA220H1/ STA288H1/ GGR207H1/ EEB225H1, or other equivalent

Recommended Preparation: HST209H1

Breadth Requirements: Society and its Institutions (3)

HST306H1 - Health, Nutrition and Food Security

Hours: 24L

This course examines the antecedents (for example: social structure, environments, human development and behaviour) that underlie nutrition-mediated aspects to human health and disease. This will include review and analysis of seminal, primary, and current research as well as contemporary issues surrounding nutritional literacy and deficits, food insecurity and access, as these relate to morbidity and pre-mature mortality. The course will also examine existing public health practices for health promotion and access, and population-level disease prevention and interventions.

Prerequisite: HST250H1/ STA220H1/ STA288H1/ GGR207H1/ EEB225H1, or other equivalent

Recommended Preparation: HST209H1

Breadth Requirements: Society and its Institutions (3)

HST307H1 - Special Topics in Health Studies I

Hours: 24L

The specific content of this course will vary from one year to another, depending on the availability of particular health researchers and scholars. Specific course information will be available on the Health Studies website at www.uc.utoronto.ca/healthstudies/.

HST308H1 - Aging and Health

Hours: 24L

Provides an understanding of the interface between health and aging, and how to maintain wellness in a rapidly aging population. Examines theories of aging, the meaning of health in old age, myths about the health of Canada's older people, and emerging national and international responses to aging populations.

Prerequisite: HST209H1, HST211H1

Breadth Requirements: Society and its Institutions (3)

HST309H1 - Special Topics in Health Studies II

Hours: 24L

The specific content of this course will vary from one year to another, depending on the availability of particular health researchers and scholars. Specific course information will be available on the Health Studies website at www.uc.utoronto.ca/healthstudies/.

HST310H1 - Critical Health Policy

Hours: 24L

A critical, in-depth exploration of contemporary health and social issues. Political, social and economic forces at play in Canadian society are examined in relation to specific health issues and policies, in order to understand general societal and system dynamics of evolution and change, and to identify implications for reform efforts.

Prerequisite: HST211H1

Breadth Requirements: Society and its Institutions (3)

HST330H1 - Population Health

Hours: 24L

Extends students' understanding of population-based strategies of health promotion in Canada. Topics include: variations in health status as affected by population patterns, class, gender, ethnicity, employment, and family composition; major causes of morbidity and mortality; the concept of "community health", opportunities and constraints facing public policy.

Prerequisite: HST209H1

Recommended Preparation: HST250H1

Breadth Requirements: Society and its Institutions (3)

HST350H1 - Health Research & Practice

Hours: 36S

For students enrolled in the Health Studies Specialist and Major programs. Students engage in career-planning, presentation, and workshop activities that will prepare them for independent research and practicum projects as well as potential graduate-school applications. Includes, but not limited to, sessions on topic selection and project development, finding a supervisor, ethics and professionalism.

Prerequisite: HST250H1

HST373H1 - Epidemiology

Hours: 36L

Introduces students to the principles and methods of epidemiology. Emphasis on descriptive methods and study design. Computational techniques, measurement problems, and issues that surround the drawing of inferences from area-level or other aggregate data will be discussed.

Prerequisite: STA220H1 or equivalent

Exclusion: HMB342H1

Breadth Requirements: The Physical and Mathematical Universes (5)

HST400Y1 - Health Studies Practicum

Hours: 172P/24S

For students enrolled in the Health Studies Specialist and Major programs. Individual field placement with a health-related institution or organization, in which the student applies theory and skills to specific projects and/or tasks. Culminates in an oral and written report. Not eligible for CR/NCR option.

Prerequisite: HST350H1/ HST350Y1 or permission of the Director

HST405H1 - Global Migration and Health

Previous Course Number: HST307H1

Hours: 24L

Over the past decades, economic globalization, widening socio-economic inequities, conflict, natural disasters, environmental degradation, and, more recently, climate change have combined to become increasingly significant forces shaping global migration fluxes. This course analyzes the impact of migration on the health of those who move and of individuals, communities and entire societies in countries of origin, transit, arrival, and resettlement. It adopts an interdisciplinary approach, incorporating scholarly work from the fields of public health, the social sciences, law, and human rights.

Prerequisite: HST209H1/ HMB203H1/ HMB303H1

Exclusion: HST307H1 (Special Topics in Health Studies I: Globalization, Migration and Health), offered in Winter 2017, Winter 2018, and Winter 2019

Breadth Requirements: Society and its Institutions (3)

HST407H1 - Special Topics in Advanced Health Studies I

Hours: 24L

The specific content of this course will vary from one year to another, depending on the availability of particular health researchers and scholars. Specific course information will be available on the Health Studies website at www.uc.utoronto.ca/healthstudies/.

HST409H1 - Special Topics in Advanced Health Studies II

Hours: 24S

The specific content of this course will vary from one year to another, depending on the availability of particular health researchers and scholars. Specific course information will be available on the Health Studies website at www.uc.utoronto.ca/healthstudies/.

HST410H1 - Case Studies in Health Policy

Hours: 36S

Analyses the formation and implementation of health policy through the use of case studies. Each case deals with a substantive health policy issue. Using case studies, students will learn to understand and analyze the processes by which public policies are formed, and perform comparisons of policy alternatives.

Prerequisite: HST211H1

Recommended Preparation: HST310H1

Breadth Requirements: Society and its Institutions (3)

HST411H1 - Political Economy of Health

Hours: 36S

Examines the production and distribution of health and illness within and across populations. A political economy approach is used to better understand the fundamental origins of health inequalities, the political action that is required to tackle them, and the obstacles that hinder the possibilities for such action.

Prerequisite: HST209H1

Breadth Requirements: Society and its Institutions (3)

HST440H1 - Health & Pharmaceuticals

Hours: 24L

A critical examination of drug development, including the role of health professionals and the pharmaceutical industry in researching, testing, marketing, licensing, and evaluating pharmaceutical drugs. Topics include the differing needs for drug development, evaluation and dispensing in lower income countries, and potential conflicts of interest in drug development.

Prerequisite: HST209H1/ HMB303H1

Breadth Requirements: Society and its Institutions (3)

HST450Y1 - Undergraduate Health Research Project

Final culminating project for students in the Health Studies Specialist. Students will prepare an undergraduate thesis by the end of the course under the supervision of a University of Toronto faculty member. Students must submit an Independent Research Course Proposal form confirming a faculty supervisor has agreed to participate and describing the content of the project by the end of August. This form is available on the University College Health Studies Program website at <https://www.uc.utoronto.ca/health-studies/courses>. Not eligible for CR/NCR option.

Prerequisite: HST250H1, STA220H1, HST350Y1 and an Independent Research Course Proposal form

HST451Y1 - Independent Research in Health Studies

This two-semester course designation will permit students to gain academic credit for health studies pursued independently, or to participate in an ongoing health research project, under the supervision of a University of Toronto faculty member. Students must submit an Independent Research Course Proposal form confirming a faculty supervisor has agreed to participate and describing the content of the project by the end of August. This form is available on the University College Health Studies Program website at <https://www.uc.utoronto.ca/health-studies/courses>. Not eligible for CR/NCR option.

Prerequisite: HST209H1, HST250H1, and an Independent Research Course Proposal form

Recommended Preparation: HST350Y1

HST464H1 - The Nature of Global Health

Hours: 24L

Explores the historical, ideological, economic, political, and organizational factors that shape the theory and practice of international health (IH). Students will be encouraged to critically examine some of the central tensions embedded in this field.

Prerequisite: HST209H1/ HMB303H1

Breadth Requirements: Society and its Institutions (3)

JHU473H1 - Environmental Crises, Human Mobility, and Health

Hours: 24S

Multiple environmental crises – climate change, environmental degradation, loss of biodiversity, resource depletion – are already affecting every inhabited region of the globe, impacting human health in direct, indirect, and systemic ways. At the systemic level, they act as risk multipliers, compounding the effects of pre-existing social and political determinants of health, including human mobility. This course discusses the interactions between environmental crises and human mobility, and their impact on human health.

Prerequisite: HST209H1/ HMB203H1/ HMB303H1

Recommended Preparation: HMB203H1, HST405H1

Breadth Requirements: Society and its Institutions (3)

HST480H1 - Independent Research in Health Studies

This one-semester course will permit students to gain academic credit for health studies pursued independently, or to participate in an ongoing health research project, under the supervision of a University of Toronto faculty member. Students must submit an Independent Research Course Proposal form confirming a faculty supervisor has agreed to participate and describing the content of the project at least two weeks prior to the first day of term. This form is available on the University College Health Studies Program website at <https://www.uc.utoronto.ca/health-studies/courses>. Not eligible for CR/NCR option.

Prerequisite: HST209H1, HST250H1, and an Independent Research Course Proposal form

Recommended Preparation: HST350Y1

Other University College Courses

UNI299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

UNI393Y1 - University College Independent Studies

An opportunity to design an independent research course of study at the 300 level not otherwise available within the Faculty of Arts and Science. Students must be registered at UC or in a UC-affiliated program. Not eligible for CR/NCR option.

Students must submit an application form that includes a written proposal and confirms that a faculty member has agreed to supervise. Applications must be submitted to the UC Programs Office (UC 173) for approval by the Vice-Principal. Applications are due before the first day of course enrolment. Application form is available at the University College website at <https://www.uc.utoronto.ca/programs-study-academic-programs-independent...>

Prerequisite: 10.0 credits and minimum cGPA of 3.0

UNI394H1 - University College Independent Studies

An opportunity to design an independent research course of study at the 300 level not otherwise available within the Faculty of Arts and Science. Students must be registered at UC or in a UC-affiliated program. Not eligible for CR/NCR option.

Students must submit an application form that includes a written proposal and confirms that a faculty member has agreed to supervise. Applications must be submitted to the UC Programs Office (UC 173) for approval by the Vice-Principal. Applications are due before the first day of course enrolment. Application form is available at the University College website at <https://www.uc.utoronto.ca/programs-study-academic-programs-independent...>

Prerequisite: 10.0 credits and minimum cGPA of 3.0

UNI399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

UNI495Y1 - University College Independent Studies

An opportunity to design an independent research course of study at the 400 level not otherwise available within the Faculty of Arts and Science. Students must be registered at UC or in a UC-affiliated program. Not eligible for CR/NCR option.

Students must submit an application form that includes a written proposal and confirms that a faculty member has agreed to supervise. Applications must be submitted to the UC Programs Office (UC 173) for approval by the Vice-Principal. Applications are due before the first day of course enrolment. Application form is available at the

University College website at <https://www.uc.utoronto.ca/programs-study-academic-programs-independent...>

Prerequisite: 15.0 credits and a minimum cGPA of 3.0

UNI496H1 - University College Independent Studies

An opportunity to design an independent research course of study at the 400 level not otherwise available within the Faculty of Arts and Science. Students must be registered at UC or in a UC-affiliated program. Not eligible for CR/NCR option.

Students must submit an application form that includes a written proposal and confirms that a faculty member has agreed to supervise. Applications must be submitted to the UC Programs Office (UC 173) for approval by the Vice-Principal. Applications are due before the first day of course enrolment. Application form is available at the University College website at <https://www.uc.utoronto.ca/programs-study-academic-programs-independent...>

Prerequisite: 15.0 credits and a minimum cGPA of 3.0

Victoria College

Faculty List

Professors Emeriti

V. Falkenheim, PhD
M. Nyquist, PhD

Professors

K.R. Bartlett, MA, PhD
M. Chazan, MPhil, PhD
G. E. Clarke, MA, PhD
R. Comay, PhD
D.B. Cook, MA, PhD
R. Davidson, MA, PhD
A. Esterhammer, PhD, FRSC
P.W. Gooch, MA, PhD
E.-L. Jagoe, MA, PhD
E. Jennings, MA, PhD, FRSC (Distinguished Professor)
I. Kalmar, MA, PhD
E.M. Kavalier, MA, PhD
C. Knappett, PhD
A. Most, MA, PhD
H. Murray, PhD
A. Sakaki, MA, PhD
A. Shternshis, PhD
P. Stevens, MA, PhD, FRSC
N. Terpstra, PhD, FRSC

Associate Professors

K. Derry, MA, PhD
C. James, MA, PhD
A. Komaromi, MA, PhD
C. Krmpotich, MA, DPhil
S. Lee, PhD
A. McQuibban, PhD (James and Anne Nethercott Professor)
I. Mihalache, PhD
A. Motsch, PhD
T. Reynolds, MTS, PhD
W. Robins, MPhil, PhD
A. Walkden, MPhil, PhD

Associate Professors, Teaching Stream

E. Istrate, BSc, PhD
M. Scarci, PhD
S. Ross, PhD
A. Sol, PhD (Blake C. Goldring Professor)
I. Wells, PhD
N. Wigg-Stevenson, MDiv, MA, PhD

Assistant Professors

C. Battershil, PhD
Y. Cleovoulou, MA, PhD
S. Dowling, MA, PhD
R. Kijima, PhD

E. Lockhart, MPhil, PhD
N. Naga, MA

Assistant Professors, Teaching Stream

H. Barseghyan, PhD
J. Forgie, PhD
P. Granata, PhD
J. Hamilton-Diabo, MDiv (June Callwood Professor of Social Justice)
S. Johal, LLB (David and Anne Wilson Professor of Public Policy)
E. Koester, LLB, PhD
M. LaFosse, PhD
A. Lawless, MA, PhD
C. Lewis, PhD
G.L. Newsome, MMus
J. Papayiannis, MA, PhD
C. Sutton, MA, MA, PhD
S. Yeung, PhD

Visiting Professors and Special Lecturers

W. Cecil BA, LLD
J. Faflak, MA, PhD
D. Wright, BSc, MBA (Kenneth and Patricia Taylor Distinguished Professor of Foreign Affairs)
K. Wynne, MA, MEd (Hon. Newton W. Rowell Professor)

Introduction

Victoria College (Vic) is committed to providing students with a personal and inclusive university experience inside and outside the classroom. This is an environment where students and faculty are engaged in building a community that welcomes diversity, embraces creativity, and is energized by challenge.

At Vic, we nurture a close-knit learning environment from the very beginning of your academic career. Our distinctive first-year offerings include the award-winning Vic One program and the Vic One Hundred series of first-year foundations seminars. Every first-year Victoria College student takes at least one small seminar course. You will experience here the academic advantages of being a student at one of Canada's leading research universities combined with the intimacy of a small liberal arts college.

More information is found on the [Victoria College website](#).

Vic One

Victoria College offers first-year Arts and Science students an opportunity for a unique educational experience that draws upon the College's history and identity. Eight streams are available in this foundation year program, known as Vic One. These small seminar courses feature lively discussion and dialogue, and are enriched by

weekly plenary sessions with dynamic professors, artists, scientists, writers, ambassadors and other public figures.

Two required courses in each stream are seminar courses given by faculty of Victoria College. They have a limited enrolment of 25 students in each class. A third co-requisite course is listed with each course description. Students who have questions about their Vic One co-requisite course must contact the Vic One Liaison Officer at vic.one@utoronto.ca.

Vic One enrolment requires an application that is found on the Vic One website (www.vic.utoronto.ca). All first-year students in the Faculty of Arts and Science (St. George campus), regardless of college membership, are eligible for admission to Vic One. Admission decisions are based on extra-curricular activities, a short original essay and the student's entering grades.

Vic One Hundred: First Year Seminars

Vic One Hundred offers first-year Arts and Science students the opportunity to experience stimulating themes and big ideas in a small class environment. These limited enrolment courses facilitate close contact with distinguished teaching faculty and fellow students, while providing an excellent foundation for future studies.

Combined Degree Programs (CDP) offered with Ontario Institute for Studies in Education (OISE)

- Combined Degree Program in HBA/HBSc and Master of Teaching (MT) (Victoria College and OISE)
- Combined Degree Program in HBA/HBSc and Master of Arts, Child Study and Education (MA-CSE) (Victoria College and OISE)

Students enrolled in the Minor in Education and Society may apply for one of these Combined Degree Programs. For details about application and program requirements, see the [Combined Degree Programs section](#).

Creativity and Society Program

The Minor in Creativity and Society allows students to develop creative and communicative proficiency by taking part in workshop-style courses in fiction, non-fiction, drama or poetry writing and/or creative expression through aural and visual media. Students will also explore the reciprocal relationship of the creative arts and society by studying social issues in the arts, the influence of writers and artists on society, and the impact of society and the marketplace on creative endeavours. Courses explore such topics as the arts and public opinion; reception and interpretation; marketing and reviewing; censorship and criticism; ethics and accountability. This

program fosters the exercise of creativity while making the relationship of creative expression and social conditions a subject for reflection and dialogue.

Education and Society Program

The Education and Society (E&S) Minor program provides students with opportunities to develop their understanding of the reciprocal relationship between social, cultural, historical, and political contexts of education. Conceived as an interdisciplinary Minor program, E&S targets students from a broad array of Major and Specialist programs with interests in education, teaching, curriculum development, learning, child development, social justice, and international education. The Minor program provides strong background for admission to a teacher education program and is required for admission to the Combined Degree Programs with OISE (Master of Teaching, and MA in Child Study and Education; separate application required).

Literature and Critical Theory Program

The Literature and Critical Theory program will attract students who are interested in exploring and generating links between literature and historical, cultural, political, social, and psychological forces. The program trains students to think about how problems of the present are tied to those of the past, and to consider critically how we both represent this past and imagine possible futures. Students will be engaged in the practice of close, contextualized analyses of literary texts and other discursive forms, including artefacts, institutions and social practices, originating in different languages, geographical locations, and historical periods.

Literary production, like all forms of cultural production, invariably exceeds the boundaries of the nation, and increasingly so in today's globalized world. The boundaries between various cultural media are similarly porous, and the aesthetic values by which we identify, judge, and classify literary and cultural objects are historically shaped. For these reasons, students will be encouraged to study in more than one language and to work with a variety of media. Our courses explore literary and cultural movements across languages, geographical regions, epochs, media, and disciplines.

Material Culture and Semiotics Program

What does it mean to live in a "material world"? What might we learn from studying the signs that surround us? In an increasingly consumer-oriented, globalized and digital age, how do objects and signs express the longstanding beliefs and values of different societies? The Minor in Material Culture and Semiotics is a unique, future-oriented program of study that combines the study of objects such as historical artifacts, works of art, consumer products, technology and built structures with semiotics – the science of signs, sense-making, and

cultural interpretation. Courses examine the meanings people invest in their things, across cultures and time periods, and consider processes of production, consumption, invention, exchange, use, re-use, divestment, disposal, collection, and exhibition. Material Culture and Semiotics thus offers an interdisciplinary space in which to understand contemporary and emerging society through engagement with historical and theoretical perspectives on human behaviour and meaning-making. Students have the opportunity to participate in an internship course with a placement in a museum, gallery, library, archive, cultural institutions, or creative design and advertising-oriented businesses. The Minor is designed to complement programs in such disciplines as Anthropology, Archaeology, Art History, History, Book and Media Studies, and History of Science and Technology and to prepare students for careers in such fields as museums and cultural institutions, marketing and advertising, communications, journalism, and education.

Renaissance Studies Program

The Renaissance Studies Program lets you study one of the most critical periods in European and world history. Changes in art and literature, in social and political development, and in technology and science transformed European concepts of the individual, society, and the world.

Many aspects of our modern world had their origin in this period: our emphasis on the study of human affairs; our irrepressible interest in the exploration of the universe, in science, and in medicine; the institutions of church and state as we know them today. The Renaissance is also a period of unparalleled European contacts with non-European civilizations – from the powerful Islamic world of the Near East and North Africa to the great pre-Columbian civilizations of the Americas, from the uncharted forests of equatorial Africa to the exotic lands of the Indian subcontinent and the Far East, nothing seemed too distant or too inaccessible for the European mind or merchant.

This interdisciplinary program is particularly attractive to students of history, politics, literature, fine art, history of science, music and theatre, because it assembles aspects of all these studies to focus on one seminal period.

Science, Technology, and Society Program

The influence of scientific research and its applications is evident in virtually all aspects of modern life, from our conception of societal obligation and familial relations, to our interaction with the commonplace materials and objects we use to sustain ourselves. However, scientific and technological development is in turn affected by and shaped by politics, public opinion, moral beliefs and cultural practices.

Courses in this program explore topics such as ethical uses of technology, scientific revolutions and controversies, science-related policy and politics, modeling and communication of scientific research, and knowledge transfer from research to commercial and societal applications. Science, Technology, and Society is co-sponsored by Victoria College and the Institute for the History and Philosophy of Science and Technology.

Note Regarding Changes to Completion Requirements and Program Name for the Creative Expression and Society Minor

Effective for students enrolling in the program after the Fall/Winter 2023-24 session, the renamed Creativity and Society Minor (ASMIN2750) will replace the Creative Expression and Society Minor (ASMIN2741). Students who applied to the Creativity and Society Minor (ASMIN2750) after the Fall/Winter 2023-24 session follow the enrolment and completion requirements of the modified program as published in the [2023-24 Arts & Science Academic Calendar](#).

Students who enrolled in the Creative Expression and Society Minor (ASMIN2741) by September 20, 2023 will be able to complete the requirements as published in the 2022-23 Arts & Science Academic Calendar, which can be found under [Archived Calendars](#). Consult Victoria College for more information.

Victoria College Programs

Literature and Critical Theory Specialist in the Comparative Literature Stream (Arts Program) - ASSPE1026

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(12.0 credits, no more than 1.0 credit at the 100-level, at least 4.0 credits at the 300+ level including 1.0 credit at the 400-level)

1. First year in program: [LCT202Y1](#)
2. First or second year in program: [LCT203H1](#), [LCT205H1](#)
3. 3.5 credits from [VIC162H1](#), [VIC163H1](#), [VIC167H1](#), [VIC184H1](#), [VIC190Y1](#), [LCT204H1](#), [LCT301H1](#), [LCT302H1](#), [LCT303H1](#), [LCT304H1](#), [LCT305H1](#), [LCT306H1](#), [LCT307H1](#), [LCT308H1](#), [LCT401H1](#)

LCT401Y1, LCT403H1, LCT494H1/ LCT494Y1.

4. LCT402H1

5. 6.0 credits in languages or literatures drawn from other departments, of which:

- at least 4.0 credits must involve reading texts in a language other than English,
- at least 2.0 credits must be at the 300+ level.

Literature and Critical Theory Specialist in the Cultural Theory Stream (Arts Program) - ASSPE1023

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(12.0 credits, no more than 1.0 credit at the 100-level, at least 4.0 credits at the 300+ level including 1.0 credit at the 400-level)

1. First year in program: LCT202Y1
2. First or second year in program: LCT203H1, LCT205H1
3. 3.5 credits from VIC162H1, VIC163H1, VIC167H1, VIC184H1, VIC190Y1, LCT204H1, LCT301H1, LCT302H1, LCT303H1, LCT304H1, LCT305H1, LCT306H1, LCT307H1, LCT308H1, LCT401H1/ LCT401Y1, LCT403H1, LCT494H1/ LCT494Y1
4. LCT402H1
5. 4.0 credits in ONE other discipline offered within the Faculty of Arts & Science – African Studies, Anthropology, Art History, Caribbean Studies, Cinema Studies, Classics, Critical Studies in Equity and Solidarity, Drama, East Asian Studies, History, Music, Political Science, Philosophy, Psychology, Sociology, Women and Gender Studies, and other departments as approved by the program coordinator.
6. 2.0 credits in courses where the primary language of study is not English, including at least 1.0 credit at the 300+ level.

Renaissance Studies Specialist (Arts Program) - ASSPE0532

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10.0 credits, no more than 1.0 credit at the 100-level, at least 4.0 credits at the 300+ level including 1.0 credit at the 400-level):

1. (REN240H1 and REN244H1/ REN245H1/ REN240Y1
2. 2.5 credits from: VIC114H1, VIC141H1, VIC142H1, VIC196H1, REN241H1, REN242H1, REN338H1, REN340H1, REN341H1, REN342H1, REN343H1, REN344H1, REN345H1, REN346H1, REN347H1, REN348Y0, REN349H1/ REN349Y1, REN392H1/ REN392Y1, REN441H1, REN442H1, REN449H1/ REN449Y1, REN492H1/ REN492Y1
3. 1.0 credit in Literature from: ENG220H1, ENG302Y1, ENG303H1, ENG331H1, ENG335H1, FRE319H1, FRE320H1; ITA198H1, ITA200H1, ITA300H1, ITA312H1, ITA332H1, ITA356Y0, ITA357Y0, ITA370H1, ITA400H1, ITA420H1, ITA431H1; LCT203H1; SPA352H1, SPA354H1, SPA368H1, SPA454H1, or another course approved by the program coordinator.
4. 1.0 credit in History from: HIS243H1, HIS291H1, HIS293H1, HIS308H1, HIS309H1, HIS327H1, HIS333H1, HIS355H1, HIS357Y1, HIS357Y0, HIS373H1, HIS368H1, HIS390H1, HIS403H1, HIS438H1, HIS442H1, HIS443H1, or another course approved by the program coordinator.
5. 1.0 credit in Art History from: FAH230H1, FAH231H1, FAH330H1, FAH331H1, FAH335H1, FAH337H1, FAH338H1, FAH340H1, FAH341H1, FAH370H1, FAH371H1, FAH393Y0, FAH430H1, FAH433H1, FAH434H1, FAH436H1, FAH440H1, FAH470H1, or another course approved by the program coordinator.
6. 1.0 credit in a Research Course (a 299Y1, 399Y1, on a Renaissance Studies topic, or REN392H1/ REN392Y1, REN492H1/ REN492Y1)
7. 2.0 credits in a language relevant to Renaissance Studies – French, Italian, Spanish, Portuguese, Latin, German (only 1.0 credit may be at the introductory level).
8. REN440H1

Literature and Critical Theory Major in the Comparative Literature Stream (Arts Program) - ASMAJ1026

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits, no more than 1.0 credit at the 100-level, at least 2.0 credits at the 300+ level including a 0.5 credit at the 400-level)

1. First year in program: LCT202Y1
2. First or second year in program: LCT203H1 and LCT205H1
3. 2.5 credits from VIC162H1, VIC163H1, VIC167H1, VIC184H1, VIC190Y1, LCT204H1, LCT301H1, LCT302H1, LCT303H1, LCT304H1, LCT305H1, LCT306H1, LCT307H1, LCT308H1, LCT401H1/ LCT401Y1, LCT403H1, LCT494H1/ LCT494Y1
4. LCT402H1
5. 2.0 credits in languages or literatures drawn from other departments, that involve reading texts in a language other than English. At least 1.0 credit must be at the 300+ level.

Literature and Critical Theory Major in the Cultural Theory Stream (Arts Program) - ASMAJ1023

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.5 credits, no more than 1.0 credit at the 100-level, at least 2.0 credits at the 300+ level including a 0.5 credit at the 400-level)

1. First year in program: LCT202Y1
2. First or second year in program: LCT203H1, LCT205H1
3. 2.5 credits from VIC162H1, VIC163H1, VIC167H1, VIC184H1, VIC190Y1, LCT204H1, LCT301H1, LCT302H1, LCT303H1, LCT304H1, LCT305H1, LCT306H1, LCT307H1, LCT308H1, LCT401H1/ LCT401Y1, LCT403H1, LCT494H1/ LCT494Y1
4. LCT402H1
5. 1.0 credit in ONE other discipline offered within the Faculty of Arts & Science – African Studies, Anthropology, Art History, Caribbean Studies, Cinema Studies, Classics, Critical Studies in Equity and Solidarity, Drama, East Asian Studies, History, Music, Political Science, Philosophy, Psychology, Sociology, Women and Gender Studies, and other departments as approved by the program coordinator.
6. 1.0 credit in courses at the 200+ level where the primary language of study is not English.

Renaissance Studies Major (Arts Program) - ASMAJ0532

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(6.0 credits, no more than 1.0 credit at the 100-level, and at least 2.0 credits at 300+ level)

1. (REN240H1 and REN244H1/ REN245H1)/ REN240Y1
2. 1.5 credits from: VIC114H1, VIC141H1, VIC142H1, VIC196H1, REN241H1, REN242H1, REN338H1, REN340H1, REN341H1, REN342H1, REN343H1, REN344H1, REN345H1, REN346H1, REN347H1, REN348Y0, REN349H1/ REN349Y1, REN392H1/ REN392Y1, REN441H1, REN442H1, REN449H1/ REN449Y1, REN492H1/ REN492Y1
3. 1.0 credit in Literature from: ENG220H1, ENG302Y1, ENG303H1, ENG331H1, ENG335H1, FRE319H1, FRE320H1, ITA198H1, ITA200H1, ITA300H1, ITA312H1, ITA325H1, ITA332H1, ITA356Y0, ITA357Y0, ITA370H1, ITA400H1, ITA420H1, ITA431H1, LCT203H1, SPA352H1, SPA354H1, SPA368H1, SPA454H1, or another course approved by the program coordinator.
4. 1.0 credit in History from: HIS243H1, HIS291H1, HIS293H1, HIS308H1, HIS309H1, HIS327H1, HIS333H1, HIS355H1, HIS357Y1, HIS357Y0, HIS373H1, HIS368H1, HIS390H1, HIS403H1, HIS438H1, HIS442H1, HIS443H1, or another course approved by the program coordinator.
5. 1.0 credit in Art History from: FAH230H1, FAH231H1, FAH330H1, FAH331H1, FAH335H1, FAH337H1, FAH338H1, FAH340H1, FAH341H1, FAH370H1, FAH371H1, FAH393Y0, FAH430H1, FAH433H1, FAH434H1, FAH436H1, FAH440H1, FAH470H1, or another course approved by the program coordinator.
6. REN440H1

Creativity and Society Minor (Arts Program) - ASMIN2750

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

4.0 credits including at least 1.0 credit at the 300+ level, with a maximum of 1.0 credit at the 100-level. Up to 1.0 credit may be chosen from approved courses offered by other departments (see list of Cognate Courses).

1. CRE201H1
2. At least 1.0 credit from Group A – Forms of Creativity: VIC191Y1, CRE272H1, CRE273H1, CRE275H1, CRE276H1, CRE279H1, CRE280H1, CRE282H1, CRE350Y1, CRE370H1, CRE470H1, CRE479H1, CRE479Y1, CRE480H1, CRE210H1.
3. At least 1.0 credit from Group B – Social Contexts and Interpretation: VIC164H1, VIC165H1, VIC190Y1, CRE209H1, MCS223H1, VIC223Y1, CRE235H1, CRE247H1, CRE270H1, CRE271H1, CRE281H1, VIC320H1/ VIC320Y1, CRE335H1, CRE345H1, CRE349H1, CRE371H1, CRE372H1, CRE373H1, MCS320H1, MCS331H1, MCS373H1, CRE374H1, REN346H1, CRE449H1.
4. Up to 1.0 credit from Cognate Courses: SMC219Y1, SMC229H1, SMC317H1, BMS319H1, CAR321H1, CIN201Y1, CSE349H1, DRM428H1, EAS349H1, ENG287H1, ENG289H1, ENG387H1, ENG388H1, ENG389H1, FAH352H1, FAH382H1, INS300Y1, MUS211H1, RLG231H1, RLG232H1, RLG393H1, WRR211H1, WRR311Y1, WRR312H1, WRR414H1

Education and Society Minor (Arts Program) - ASMIN1029

The Vic-sponsored Education and Society (E&S) Minor is open to all Arts and Science students. The program provides students with opportunities to develop their understanding of the social, cultural, historical, and political contexts of education and issues related to these contexts while reflecting on the reciprocal relationship between education and society.

Conceived as an interdisciplinary Minor program, E&S targets students from a broad array of Major and Specialist programs with interests in education, teaching, curriculum development, learning, child development, social justice, and international education. The Minor program provides strong background for admission to a teacher education program and is required for admission to the Combined Degree Program with OISE.

Enrolment Requirements:

This is a limited enrolment program. Students must have completed 4.0 credits and meet the requirements listed below to enrol.

Variable Minimum Grade Average

A minimum grade or grade averages in required courses are needed for entry, and these minimums change each

year depending on available spaces and the number of applicants. The following courses must be completed:

- PSY100H1/ SOC100H1/ VIC150Y1 (70%)
- 3.0 credits (minimum grade average of 73%)

To ensure that admitted students are adequately prepared to succeed in the program, applicants with a final grade and grade averages lower than those listed in the required courses will not be considered for admission. Please note that obtaining this minimum final grade or minimum grade average does not guarantee admission to the program.

Special requirement

Program applicants will be required to submit a supplemental application including 2 short questions related to the Education & Society Minor.

Completion Requirements:

(4.0 credits, including 1.0 credit at 300+ level)

1. PSY100H1/ SOC100H1/ VIC150Y1
2. EDS260H1, EDS261H1, EDS265H1, EDS357H1
3. 0.5 or 1.0 credit from EDS360H1, EDS360Y1, EDS360H0, EDS360Y0, VIC435H1, VIC451H1, VIC452H1, or another education-focused experiential learning course as approved by the Program Coordinator
4. 1.0 credit from: EDS355H1, EDS356H1, EDS358H1, EDS361H0, EDS363H1, EDS368H1, EDS369H1, or a course related to Education and Society at the 300+ level selected from the offerings in disciplines such as Anthropology, English, French, Geography, History, Indigenous Studies, Psychology, Religion, Sociology, Women & Gender Studies (Arts).

Literature and Critical Theory Minor (Arts Program) - ASMIN0539

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, no more than 1.0 credit at the 100-level, at least 1.0 credit at 300+ level)

1. LCT202Y1
2. 3.0 credits from: VIC162H1, VIC163H1, VIC167H1, VIC184H1, VIC190Y1, LCT203H1, LCT204H1, LCT205H1, LCT301H1, LCT302H1, LCT303H1, LCT304H1, LCT305H1, LCT306H1,

LCT307H1, LCT308H1, LCT401H1/ LCT401Y1,
LCT402H1, LCT403H1, LCT494H1/ LCT494Y1

Note: Effective Fall 2021, courses associated with Victoria College's Literature and Critical Theory program will have the new "LCT" designator.

Material Culture and Semiotics Minor (Arts Program) - ASMIN2731

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, no more than 1.0 credit at the 100-level, and at least 1.0 credit at the 300+ level)

1. MCS225Y1
2. MCS223H1, MCS224H1
3. 0.5 credit from MCS226H1, MCS320H1, MCS322H1, MCS323H1, MCS325H1, MCS326H1, MCS327H1, MCS328H1, MCS330H1, MCS331H1, MCS336H1, MCS373H1
4. 1.0 credit from the following options: MCS329H1/ MCS329Y1; courses listed in requirement 3 not already taken; VIC109H1, VIC163H1, VIC184H1, VIC198H1, VIC199H1, VIC246H1; or cognate courses listed below
5. MCS429H1/ MCS444H1

Cognate courses:

ANT322H1, ANT349H1, ANT372H1, ANT412H1, ANT457H1, ARH309H1, CLA389H1, EAS219H1, EAS297H1, EAS354H1, EAS406Y1, EAS412H1, FAH205H1, FAH319H1, FAH338H1, FAH353H1, FAH370H1, FAH436H1, FAH463H1, FAH483H1, FAH484H1, HIS302H1, HIS310H1, HIS358H1, HIS463H1, HIS484H1, HPS202H1, HPS401H1, HPS430H1, HPS431H1, NMC264H1, NMC394H1, NMC464H1, RLG236H1, RLG307H1, SMC387H1/ BMS387H1

Renaissance Studies Minor (Arts Program) - ASMIN0532

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, no more than 1.0 credit at the 100-level, and at least 1.0 credit at 300+ level)

1. 2.5 credits from:

VIC114H1, VIC141H1, VIC142H1, VIC196H1, REN240Y1, REN240H1, REN241H1, REN242H1, REN244H1, REN245H1, REN338H1, REN340H1, REN341H1, REN342H1, REN343H1, REN344H1, REN345H1, REN346H1, REN347H1, REN348Y0, REN349H1/ REN349Y1, REN392H1/ REN392Y1, REN440H1/ VIC440Y1, REN441H1, REN442H1, REN449H1/ REN449Y1, REN492H1/ REN492Y1

2. 1.5 credits in Literature, History, or Art from:

Literature: ENG302Y1, ENG303H1, ENG330H1, ENG331H1, ENG335H1; FRE319H1, FRE320H1; ITA200H1, ITA300H1, ITA312H1, ITA332H1, ITA356Y0, ITA357Y0, ITA370H1, ITA400H1, ITA420H1; SPA352H1, SPA368H1, SPA454H1

History: HIS243H1, HIS308H1, HIS309H1, HIS357Y1, HIS368H1, HIS403H1, HIS438H1, HIS443H1

Art: FAH230H1, FAH330H1, FAH331H1, FAH335H1, FAH337H1, FAH338H1, FAH340H1, FAH341H1, FAH370H1, FAH371H1, FAH393Y0, FAH430H1, FAH433H1, FAH434H1, FAH436H1, FAH440H1, FAH470H1

Science, Technology, and Society Minor (Arts Program) - ASMIN2743

The Minor in Science, Technology, and Society is an interdisciplinary program that focuses on the different ways science and technology shape modern society and, in turn, how society shapes science and technology. From the food we eat to the way we conceive family relations or our obligations to future generations, our daily practices and our beliefs are increasingly influenced by scientific research and its applications. In turn, politics, public opinion, moral beliefs and cultural practices affect scientific and technological development. Courses in this program address such topics as science and values, science-related policy and politics, ethical uses of technology, scientific revolutions and controversies, modeling and communication of scientific research, and knowledge transfer from research to commercial and societal applications.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, no more than 1.0 credit at the 100-level, at least 1.0 credit at the 300+ level)

- 0.5 credit from: HPS200H1, HPS202H1, HPS205H1
- 1.0 credit from: VIC106H1, VIC107H1, VIC109H1, VIC121H1, VIC122H1, VIC137H1, VIC170Y1, VIC172Y1, VIC206H1, VIC207H1, CRE210H1, CRE235H1, REN242H1, VIC245H1, VIC246H1, CRE247H1, VIC248H1, VIC274H1, VIC301H1, VIC302H1, VIC452H1, REN343H1, CRE335H1, CRE345H1, CRE371H1, VIC377H1, VIC493H1
- 1.0 credit from: HPS110H1, HPS206H1, HPS210H1, HPS211H1, HPS212H1, HPS220H1, HPS222H1, HPS240H1, HPS245H1, HPS255H1, HPS260H1, HPS270H1, HPS272H1, HPS307H1, HPS318H1, HPS319H1, HPS324H1, HPS331H1, HPS345H1, HPS346H1, HPS347H1, HPS351H1, HPS354H1, HPS401H1, HPS402H1, HPS420H1,

HPS430H1, HPS431H1, HPS440H1, HPS442H1, HPS444H1, HPS450H1, HPS455H1, JPH441H1

- An additional 0.5 credit from program requirements (1), (2) and (3) above.
- An additional 1.0 credit from program requirements (1), (2) and (3) above and/or from the approved list of cognate courses: ANT204H1, ANT205H1, ANT345H1, ANT357H1, ANT358H1, ANT364H1, BIO220H1, CHC232H1, COG345H1, CSB202H1, CSC300H1, EAS328H1, EEB215H1, ENV200H1, ETH220H1, GGR223H1, GGR251H1, HIS300H1, HIS355H1, HIS423H1, HIS497H1, HMB301H1, JFP450H1, JIG322H1, JGE321H1, PCL389H1, PHL256H1, PHL273H1, PHL281H1, PHL342H1, PHL373H1, PHL377H1, PHL381H1, PHL384H1, PHY202H1, PSY328H1, SOC243H1, SOC250Y1, SOC331H1, SOC356H1, WGS367H1 or another course approved by the program coordinator.

critical writing on detective fiction. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: ITA197H1

Breadth Requirements: Society and its Institutions (3)

Victoria College Courses

Vic First-Year Foundations

VIC196H1 - Renaissance Queens

Hours: 24S

This course examines Renaissance queens and queenship by exploring historical and fictional queens and empresses. Topics may include the varied roles queens played within their societies, their relationship with religious and political institutions, the ways in which they negotiated sovereignty vis-a-vis the gender they embodied, and all the ways in which queens were celebrated, criticized, and imagined by artists, writers, and communities of their time and today. Discussion will delve into broad questions around identity and politics and feature a broad range of case studies from Europe to colonial America and beyond. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC197H1 - Detective Fiction

Hours: 24L

This course considers detective fiction from its inception in the late nineteenth century to the present day. Students will be introduced to canonical and lesser known authors of detective fiction, evolving generic conventions, and reception history. Course content may include mystery stories, connections to emerging legal processes, and

VIC198H1 - Posters and Propaganda

Hours: 24L

How and when have political posters been used? What forms do they take? How have they changed over time? What can these visual artifacts tell us about the relationship between art and propaganda, and about the political movements that have mobilized visual strategies to advance their aims? This course involves visits to several poster collections, develops visual literacy skills, and highlights the role of the visual in societies past and present. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

VIC199H1 - The Secret Life of Objects: Analyzing the Culture of Things

Hours: 24S

This course will examine the materiality of objects with a view to understanding how artefacts are made, their circulation, consumption, and the importance of *things* to social and cultural life. An investigation of artefacts from various collections in and around the university will be undertaken to develop basic methods for the study, description and analysis of material culture. In addition to

hands-on exploration of objects, topics may include antiquarians and their methods, material culture in colonial contexts, and materials in contemporary user-friendly design. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

Vic One: Education Stream

VIC150H1 - Theory and Practice of Teaching: Theoretical Perspectives

Previous Course Number: VIC151Y1

Hours: 24S

This course introduces past and contemporary theories and perspectives on teaching and learning in schools and broader society. While there is consensus on the fundamental role that both learning and teaching play in society, a range of perspectives exists on what comprises “teaching” and “learning”, how they occur, and how they might be facilitated through designed environments. The course begins with an exploration of major theories of learning and their implications for practice. It then examines several pedagogical frameworks and perspectives of teaching and their implications for educational practice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC151H1 - Theory and Practice of Teaching: Professional Practice

Previous Course Number: VIC151Y1

Hours: 24S

This course introduces the theories and practices of teaching through analysis of three main themes: planning and implementing inclusive instruction, establishing a classroom context to support diverse learners, and analyzing professional concerns for teachers. Students will be involved in a volunteer placement in a school or community-based setting. Field experience is central to the course with students expected to apply course ideas in their volunteer work and reflect on their experiences in seminars. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC152H1 - School and Society: Historical and Contemporary Contexts

Previous Course Number: VIC150Y1

Hours: 24S

This course investigates the historical and contemporary roles of the school and formal education system and explore changes in these organizations over time. The course examines schools and learning as social, political, intellectual, and economic phenomena. Topics covered include the history of Canada's education system, the purposes of formal schooling, the role of the school, education and the law, education policy and school curriculum. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC153H1 - School and Society: Equity and Social Justice in Education

Previous Course Number: VIC150Y1

Hours: 24S

This course will examine education as a human right and through a human-rights- based lens, explore themes of equity and diversity, global education, Indigenous knowledge and perspectives, and decolonizing education. Contexts of discussion will include early-years learning, elementary and secondary school, post-secondary education, and other community-based learning settings, both locally and globally. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: None

Breadth Requirements: Society and its Institutions (3)

Vic One: Frye Stream

VIC162H1 - Cultural Forms and Their Meanings

Hours: 24S

A study of culture with a view to developing basic concepts with examples drawn from the visual arts, music, film, literature, architecture, and/or local urban artefacts. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC163H1, VIC164H1, VIC165H1, and 1.0 credit in any 100-level course in ENG or FAH or PHL

Breadth Requirements: Creative and Cultural Representations (1)

VIC163H1 - Cultural Forms and Their Meanings: People and Ideas

Hours: 24S

A study of culture with a view to developing basic concepts with examples drawn from the visual arts, music, film, architecture, and/or local urban artefacts. We will emphasize how contemporary thought has affected the practice of everyday life. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC162H1, VIC164H1, VIC165H1, and 1.0 credit in any 100-level course in ENG or FAH or PHL

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC164H1 - Ideas and Their Consequences: Literary and Artistic Realms of the Imagination

Hours: 24S

A study of the ideas and concerns of creative thinkers and their impact upon cultures. The course includes literary, scientific and/or religious intellectuals from the major traditions. Attention to modes of reasoning, cultural definition and expression. Emphasis on philosophical and artistic concepts. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC162H1, VIC163H1, VIC165H1, and 1.0 credit in any 100-level course in ENG or FAH or PHL

Breadth Requirements: Society and its Institutions (3)

VIC165H1 - Ideas and Their Consequences: Isolation and Communion in Modern Culture

Hours: 24S

A study of art, with a focus on poetry, as an essential mode of experience and knowledge, in the context of contemporary and modern society. Along with literary artists, the course includes writers on history and sociology and presents the interplay between artistic

vision and socio-political situations. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC162H1, VIC163H1, VIC164H1, and 1.0 credit in any 100-level course in ENG or FAH or PHL

Breadth Requirements: Thought, Belief and Behaviour (2)

Vic One: Gooch Stream

VIC166H1 - Common Vices and Neglected Virtues: Intro to Ethics of Character

Hours: 24S

Vice is popular: a prestigious university press has brought out a series of seven books on the Seven Deadly Sins. This course examines such questions as the following. Are greed, lust and gluttony just bad names for necessary and otherwise acceptable instincts? What is the place, in a good human life, of such qualities as honesty, trust, civility and the like? Are vices and virtues culturally determined or a matter of individual preference? Can character be taught, or is it rather a matter of genes and luck? Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC167H1, VIC168H1, VIC169H1, and 1.0 credit in any 100-level course in ANT or PHL or RLG

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC167H1 - Ideas and Fine Thoughts

Hours: 24S

This course examines how political ideas are formed and developed through literature, art, plays, essays and philosophical works in the twentieth century. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC166H1, VIC168H1, VIC169H1, and 1.0 credit in any 100-level course in ANT or PHL or RLG

Breadth Requirements: Creative and Cultural Representations (1)

VIC168H1 - Identity and Equality in the Public Sphere

Hours: 24S

This course explores current legal and philosophical debates around equality, discrimination, and the shaping of individual and group identities. It addresses the way values, affiliation, and identities have an impact on the public sphere of law and policy-making – and the ways in which law and policy, in turn, shape our conceptions (and misconceptions) of people's identities. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC166H1, VIC167H1, VIC169H1, and 1.0 credit in any 100-level course in ANT or PHL or RLG

Breadth Requirements: Society and its Institutions (3)

VIC169H1 - Ethical Living in a Pluralistic World

Hours: 24S

This course examines different values, beliefs, and traditions relating to the natural and social world, ethical living, and the common good. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC166H1, VIC167H1, VIC168H1, and 1.0 credit in any 100-level course in ANT or PHL or RLG

Breadth Requirements: Thought, Belief and Behaviour (2)

Vic One: Stowe-Gullen Stream

VIC170Y1 - The Impact of Science on Our Society

Hours: 48S

How rhetoric and statistical analysis are used to communicate scientific observations and theories to different audiences will be examined in lectures and seminars. Uncertainty, belief, evidence, risk assessment, random error and bias will be discussed using examples drawn from literature, the arts and the physical, life and social sciences. Students will prepare a research grant application on a scientific topic of their own choice.

Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC171Y1 and 1.0 credit selected from first-year course offerings in the sciences (0.5 credit must be a BIO course)

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC171Y1 - Methodology, Theory and Practice in the Natural Sciences

Hours: 48S

An examination of scientific theories and their logic in life and physical sciences. Experimental design, novel device production, data analysis and modeling will be discussed using examples drawn from primary source material in the natural sciences. Students will prepare a research paper on a topic designed in consultation with the instructor. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC170Y1 and 1.0 credit selected from first-year course offerings in the sciences (0.5 credit must be a BIO course)

Breadth Requirements: Creative and Cultural Representations (1)

Vic One: Schawlow Stream

VIC172Y1 - Physical Sciences Today

Hours: 48S

How is science performed and what enables scientific progress? What are our responsibilities as scientists? We base the discussion mostly on the development of microscopy tools. We look at how scientific discoveries affect and were affected by society. This course explores the complementary skills and knowledge needed by modern scientists. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC173Y1 and 1.0 credit selected from first-year course offerings in the sciences (0.5 credit must be a CHM, MAT or PHY course)

Breadth Requirements: Society and its Institutions (3)

VIC173Y1 - Philosophy of Science for Physical Scientists

Hours: 48S

This course introduces students to some of the issues in the philosophy of science, in general, and in the philosophy of physics, in particular. Topics include the scientific method and its controversies, the meaning of time and its properties, realism versus competing approaches, thought experiments, and quantum mechanics. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC172Y1 and 1.0 credit selected from first-year course offerings in the sciences (0.5 credit must be a CHM, MAT or PHY course)

Breadth Requirements: Thought, Belief and Behaviour (2)

Vic One: Pearson Stream

VIC181H1 - Events in the Public Sphere: World Affairs

Hours: 24S

This course will review issues in contemporary world affairs, from the fall of the Berlin Wall to the present day. The course will examine the politics and practice of foreign policy decision making. Issues to be covered include the collapse of the Soviet Union, intervention in humanitarian crises, and the conflicts in Afghanistan and Iraq. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC183H1, VIC184H1, VIC185H1, and 1.0 credit in any 100-level course in ECO, HIS or POL

Breadth Requirements: Society and its Institutions (3)

VIC183H1 - Individuals and the Public Sphere: Shaping Memory

Hours: 24S

This course explores how public service and citizenship are developed. Topics may include the role of law and government, civil liberties, rights and responsibilities, and the creation of policy, as well as how these factors shape collective memory. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC181H1, VIC184H1, VIC185H1, and 1.0 credit in any 100-level course in ECO, HIS or POL

Breadth Requirements: Creative and Cultural Representations (1)

VIC184H1 - Individuals and the Public Sphere: History, Historiography and Making Cultural Memory

Hours: 24S

A seminar course that examines the contribution of an individual or individuals to the public sphere. The course will explore how public service and citizenship are developed in social, philosophical, and cultural contexts. We will examine our evolving role in developing collective, cultural and counter memory. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC181H1, VIC183H1, VIC185H1, and 1.0 credit in any 100-level course in ECO, HIS or POL

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC185H1 - Events in the Public Sphere: Social Justice

Hours: 24S

This course uses events to discuss the nature of society including major revolutions, economic crises, and the impact of significant artistic, cultural and technological developments. Emphasis on our responsibilities towards social justice. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC181H1, VIC183H1, VIC184H1, and 1.0 credit in any 100-level course in ECO, HIS or POL

Breadth Requirements: Society and its Institutions (3)

Vic One: Chambers Stream

VIC186H1 - The Art and Literature of Leadership 1

Previous Course Number: VIC186Y1

Hours: 24S

What is a leader? Are leaders born or are they made, and if they are made is there a craft to being able to lead others? Through works of art, film, and literature, this course examines the various types of men and women who become leaders from natural-born talents to statesmen and state-crafters and individual entrepreneurs with the purpose of defining those qualities that make for the leaders of tomorrow. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC187H1, VIC188H1, VIC189H1, ECO101H1 and ECO102H1

Exclusion: VIC186Y1

Breadth Requirements: Creative and Cultural Representations (1)

VIC187H1 - Prosperity, Justice, and Sustainability: Introduction to Public Policy

Hours: 24S

This course introduces policy applications of measurement tools and economic concepts by analyzing current issues in the news, such as public spending and debt, health care, social security, energy, climate change, innovation, and education. Concepts from the philosophy and history of economic thought will be used to address such questions as: What is the nature of economic explanations? Do they tell us the truth about reality? Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC186Y1, VIC188H1, ECO101H1 and ECO102H1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC188H1 - Corporate Citizenship, Sustainability, and Ethics

Hours: 24S

Drawing together philosophical background readings with contemporary applications, this course addresses issues of corporate social responsibility, business ethics, human rights, diversity, and equity, and considers how these topics intersect with a wide range of global practices. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC186H1, VIC187H1, VIC189H1, (ECO101H1 and ECO102H1)/ ECO105Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC189H1 - The Art and Literature of Leadership 2

Previous Course Number: VIC186Y1

Hours: 24S

What is a leader? Are leaders born or are they made, and if they are made is there a craft to being able to lead others? Through works of art, film, and literature, this course examines the various types of men and women who become leaders from natural-born talents to statesmen and state-crafters and individual entrepreneurs with the purpose of defining those qualities that make for the leaders of tomorrow. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC186H1, VIC187H1, VIC188H1, ECO101H1 and ECO102H1

Exclusion: VIC186Y1

Breadth Requirements: Creative and Cultural Representations (1)

Vic One: Jewison Stream

VIC190Y1 - The Arts and Society

Hours: 48S

The artist, filmmaker, poet or dramatist has changed society and how we imagine our future. The course explores a number of paradigm cases of how the arts have interacted with social problems. Both historical and current examples of the role of the imaginative arts will be explored. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC191Y1 and 1.0 credit in any 100-level course in ARC or CIN or DRM or ENG or MUS or VIS

Breadth Requirements: Society and its Institutions (3)

VIC191Y1 - Artistic Creation and Public Issues

Hours: 72S

This course addresses social issues through the exploration of creative activity and the imaginative arts. Topics will be discussed from historical, ethical and philosophical perspectives, and might be considered either in a group or individually. Restricted to first-year students. Not eligible for CR/NCR option.

Prerequisite: Admission to Vic One:

<https://vic.utoronto.ca/future-students/vic-one/>

Corequisite: VIC190Y1 and 1.0 credit in any 100-level course in ARC or CIN or DRM or ENG or MUS or VIS

Breadth Requirements: Creative and Cultural Representations (1)

Vic One Hundred

VIC101H1 - Conflict Theory and Practice

Hours: 24S

This course is a general orientation to conflict theory, and develops a basic understanding of essential conflict resolution principles that will complement the study of conflict theory. The course will examine the differences between conflicts and disputes, the functions and desirability of conflict, and the conditions that facilitate conversion of conflicts from destructive to constructive. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC102H1 - Ethics and Choices in Times of Crisis

Hours: 24S

This course examines a specific event, or events, in relation to the public sphere. The course will use events or an event as an entry point to discuss the nature of society including topics such as major revolutions, economic crises, the impact of the appearance of significant artistic or cultural works, and the impact of technological changes. Not eligible for CR/NCR option.

Exclusion: VIC102Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC105H1 - Odysseys: The Search for Meaning

Hours: 24S

Metaphors and motivations of journeying have long intrigued human beings as they have attempted to understand the meaning of their existence: the setting out, the seeking for a desired object, the pilgrimage of religious observance, and the longing to return home. Through texts, art, music and film, this course will explore some of the shaping journey-myths of our culture from classical, Hebrew, medieval and modern sources. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

VIC106H1 - Psychology and Society

Hours: 24S

This course explores central developments and ongoing controversies in the scientific study of the human mind, brain and behaviour. It examines topics such as: psychoanalysis, behaviourism, humanistic psychology, evolutionary psychology, intelligence testing, and feminist perspectives. Goals include understanding the historical evolution and social relevance of scientific psychology. Not eligible for CR/NCR option.

Exclusion: VIC206H1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC107H1 - Evolution, Genetics, and Behaviour

Hours: 24S

In this course we examine major episodes in the history of evolution and genetics in the twentieth century. Topics include Darwinian evolution, sociobiology and evolutionary psychology, eugenics, and genetic screening and therapy. We will examine different views about the control of evolution and genetic manipulation in their socio-cultural-economic context and discuss the ethical and social implications of those views. Not eligible for CR/NCR option.

Exclusion: VIC207H1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC108H1 - Belonging, Imagination, and Indigenous Identity

Hours: 24S

This course will examine a number of questions related to Indigenous identities as they have been constituted through collective belonging and cultural representation. Topics covered may include: language, the arts, cinema, ecology, religion, ritual, and the enduring legacy of colonialism. Not eligible for CR/NCR option.

Exclusion: VIC108Y1

Breadth Requirements: Society and its Institutions (3)

VIC109H1 - Innovators and Their Ideas

Hours: 24S

A study of the ideas and concerns of innovators who questioned traditional views and values. The course includes creative thinkers who challenged basic concepts on politics, literature, religion, and society. Not eligible for CR/NCR option.

Exclusion: VIC109Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC110H1 - Critical Perspectives on Society

Hours: 24S

By means of short texts, film or art works this course explores such themes as the effect of technology on the political, the nature of democracy, the question of resistance through art and the role of violence in the social. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC112H1 - Puzzles, Discovery and the Human Imagination

Previous Course Number: VIC112Y1

Hours: 24S

There has never been a period of time, nor has there ever been a culture, without some kind of puzzle tradition. Are puzzles just playful artefacts, intended merely to entertain? Or are they mirrors of something much more fundamental in human life? The course will take a close

look at what puzzles tell us about the human mind and human culture. Not eligible for CR/NCR option.

Exclusion: VIC112Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC113H1 - Encountering Distant Climes: The Literature of Travel and Exploration

Hours: 24S

This course will study accounts of world travelers and explorers from the Middle Ages to the present, including representative examples drawn from the Age of Exploration, the Grand Tour, scientific and map-making expeditions, and the contemporary genre of travel writing. Particular attention will be given to the trans-cultural nature of travel, and the interactive aspects of the gulf between the observer and those observed. Students will analyze the diverse motivational factors behind excursions and expeditions, and apply a critique to written accounts in light of such factors as self-discovery, knowledge and imagination, Eurocentrism, orientalism, cultural relativism, colonialism/imperialism, race, gender, and eco-tourism. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

VIC114H1 - Renaissance in Popular Culture

Hours: 24S

This course explores the depiction of the Renaissance in a wide range of plays, films and novels. The focus is on the exchange between film, fiction, and 'fact', and on how the values and concerns of the present shape creative recreations of the past in popular culture. Not eligible for CR/NCR option.

Exclusion: VIC114Y1

Breadth Requirements: Creative and Cultural Representations (1)

VIC115H1 - Imagined Power: Literature and Film

Hours: 24S

In this course we will study a number of literary and cinematic works that take up questions of power, duty,

rights, responsibility, and freedom. Our texts will be drawn from a long history, and from many parts of the world. The sequence however will not be chronological. Not eligible for CR/NCR option.

Exclusion: VIC115Y1

Breadth Requirements: Creative and Cultural Representations (1)

VIC116H1 - Politics of the Pen

Hours: 24S

A study of how literature challenges prevailing political beliefs and social norms. We will situate our discussion in the broader context of human rights and freedoms. We will examine cases where literature has been censored and writers have been imprisoned or driven into exile. Part of this course involves a community service-learning component. We will consider how this literature contributes to debate and advocacy around issues of social justice. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC117H1 - Understanding the Performing Arts: Interpretation and Expression

Hours: 24S

This course examines two key issues about the performing arts that concern both artists and theorists: the nature of interpretation and of expression. What might we mean when we say that a work, a piece of music or a dance for example expresses something? What is it to express? And what is the nature of interpretation? Are there any constraints or boundaries on interpretation? We will draw on both philosophers and non-philosophers to explore these sorts of questions. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

VIC119H1 - Myths and Legends in Modern Contexts

Hours: 24S

This course provides an introduction to modern forms of ancient narratives, exploring the ways in which selected ancient literary sources and myths have been adapted to

modern Canadian literature. Ancient narratives or 'old stories' are often reused, reinterpreted or reconstructed in modern narratives and given new relevance in a contemporary context. Students will encounter sources and contexts of ancient narratives. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

VIC121H1 - Evaluating Healthcare: Problems and Solutions

Hours: 24S

This course introduces students to the study of healthcare by asking foundational questions about how evidence and knowledge are produced in the context of healthcare problems. Students will explore how different frameworks for clinical practise (e.g. Evidence-based Medicine, Person-Centered Healthcare) conceptualize evidence and how different methodologies impact how healthcare research is conceived, reported, and understood. Students will learn to critically appraise healthcare research studies and assess their evidence value and implications for clinical practice. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Living Things and Their Environment (4)

VIC122H1 - Scientific Evidence in Public Policy

Hours: 24S

This course investigates issues arising from the translation of scientific evidence for public consumption, including in the development of public policy and in confronting problems of social and global significance. Areas of focus will include climate change, global health, and clinical medicine. Students will explore concepts including the perception and communication of risk, the generalizability of research findings, probabilistic and mechanistic thinking, and the use and abuse of scientific authority and "expertise" in public discourse. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC134H1 - Globalization

Hours: 24S

This interdisciplinary course explores the contemporary character of globalization. The world is shrinking as money, goods, people, ideas, weapons, and information flow across national boundaries. Some commentators assert that a more tightly interconnected world can exacerbate financial disruptions, worsen the gap between rich and poor nations, undermine democracy, imperil national cultures, harm the environment, and give unconstrained freedom to predatory corporations. Others proclaim that globalization - understood as capitalism and free markets - fosters economic growth, encourages creative collaboration, inspires technological breakthroughs, and enhances human prospects for a better life, in rich and poor countries alike, in unprecedented ways. Our task is to evaluate the evidence and draw our own conclusions. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC135H1 - The Death of Meaning

Hours: 24S

In *The Origin of Species*, Darwin concluded there was no evidence to suggest that life was designed by a higher power. A corollary of this is that our lives lack any necessary purpose or meaning. Our readings will be directed to the question of what it means to lack 'Meaning'. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC136H1 - How to Study Everyday Life

Hours: 24S

An introduction to the academic study of everyday life. A cross-disciplinary discussion class drawing on a wide variety of examples from ordinary life, fantasy, and culture. We situate the apparently innocuous within larger patterns of social relations and social change. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

VIC137H1 - Science and Science Fiction

Hours: 24S

Based on reading and discussion of science fiction and popular science in the context of social issues, this seminar course explores the fantastic visions of

humanity's future inspired by scientific advances during the twentieth century. Not eligible for CR/NCR option.

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC141H1 - Discovery and Revolution

Hours: 24S

This course examines the emergence of a global modern world in relation to the upheavals of the Renaissance (1350-1700) and its discoveries and innovations in culture and society. Not eligible for CR/NCR option.

Exclusion: VIC141Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC142H1 - Machiavelli: The Politics of Power

Hours: 24S

The name of Machiavelli unleashes powerful opinions and responses and conjures up trickery, duplicity and cynicism. Yet Machiavelli himself is arguably the least Machiavellian of political figures of the Italian Renaissance. This course examines the writings of Niccolò Machiavelli, placing them in their historical context in order to understand this most controversial figure of the Renaissance, his influence and his lasting legacy. Not eligible for CR/NCR option.

Exclusion: ITA198H1 (Machiavelli and Machiavellianism); VIC141Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC159Y1 - Vic One Hundred Special Topics Seminar

Hours: 48S

Topics vary from year to year. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

VIC159H1 - Vic One Hundred Special Topics Seminar

Hours: 24S

Topics vary from year to year. Not eligible for CR/NCR option. Breadth requirement will vary from year to year depending on the course topic. Please refer to course website for more information:
<https://vic.utoronto.ca/academic-programs/special-topics-courses/vic159h>

Creativity and Society

CRE201H1 - Introduction to Creativity and Society

Hours: 12L/12S

A course that explores the relationship between creativity and the social, political, and economic worlds in which it functions. Students acquire theoretical and methodological frameworks in Creativity Studies, historicize the conditions of creative possibility across disciplines, and explore case studies. Topics include the advent of creativity as a concept, a comparative understanding of creativity across non-western and historically marginalized cultures, analyses of how the business of innovation and professionalization of “creatives” affect the way arts and ideas develop, and a self-examination of how students’ own creative goals are shaped by the standards, structures, and practices that precede them.

Breadth Requirements: Creative and Cultural Representations (1)

CRE209H1 - How Stories Work

Previous Course Number: VIC209H1
Hours: 24S

Stories give shape and substance to the things we believe in, from scientific theories and sacred texts to literary tales and philosophical propositions. They perpetuate ideals and identities, and sustain institutions and communities. This course will take up a set of texts from the arts, sciences, religions and several other storytelling traditions, ancient and modern, considering their claims to authority and making connections between them.

Exclusion: VIC209H1

Breadth Requirements: Creative and Cultural Representations (1)

CRE210H1 - Holography for 3D Visualization

Previous Course Number: IVP210H1
Hours: 24L/36P

An introduction to the theory and practice of holography. Human perception & 3D visualization; fundamentals of 3D modeling; ray and wave optics; interference, diffraction, coherence; transmission and reflection holograms; colour perception; stereograms. Applications of holography in art, medicine, and technology. Computer simulation, design, and construction of holograms. This course does not require specific background or preparation in the sciences or arts. This course has a mandatory Materials Fee of \$82 to cover non-reusable materials. The fee will be included on students' ACORN invoice.

Exclusion: JOP210H1, IVP210H1

Breadth Requirements: The Physical and Mathematical Universes (5)

CRE235H1 - Innovation in Society

Previous Course Number: VIC235H1
Hours: 24L

This course investigates innovation as it relates to emerging social, scientific, and environmental trends. Students will acquire key frameworks for understanding the evolution of innovation, the place of creativity, and the social impacts of disruption. Through case studies of innovation (such as the sharing economy and cryptocurrencies) and considering related issues (such as ethics and inclusion) students will develop approaches to understanding the societal impacts of creative disruption.

Exclusion: VIC235H1, MUN101H1, MUN102H1

Breadth Requirements: Society and its Institutions (3)

CRE247H1 - Creativity in the Sciences

Hours: 24S

This course explores definitions of “creativity” and compares its significance in science to creativity in arts, business or engineering. By studying major developments in the history of science as well as psychological and neuroscientific studies, we will consider factors that enable creativity; creativity in fundamental science and at various stages of a project; the randomness or predictability of scientific discoveries; disciplinary and interdisciplinary work; the evaluation of discoveries; and attempts to predict the future of scientific creativity.

Prerequisite: Any 1.0 credit combination of courses carrying a breadth requirement (BR) category of 4 or 5.
Breadth Requirements: Thought, Belief and Behaviour (2)

CRE270H1 - Listening: A Critical History

Previous Course Number: VIC270H1
Hours: 24S

Surveying scenarios for public and private musical listening, from historical contexts to the present, this course explores critical questions about how we listen, including the relationship between musical genres and listening situations, the definition of music vs. noise, the influence of spectatorship, and the impact of changing technologies. Students discuss the changing aesthetics and ideologies of musical listening, considering ways in which listening shapes our understanding of the social and our awareness of communities.

Exclusion: VIC270H1
Breadth Requirements: Creative and Cultural Representations (1)

CRE271H1 - Reading the Wild

Previous Course Number: VIC271H1
Hours: 24S

In light of the environmental crisis, this seminar surveys a wide range of oral and written literature in order to discover how our approach to nature has changed over the centuries, what gains and losses have attended modernity, and what older cultures can teach us as we seek to preserve threatened ecosystems.

Exclusion: VIC271H1
Breadth Requirements: Creative and Cultural Representations (1)

CRE272H1 - Song, Lyrics, and Songwriting

Hours: 24S

A course exploring song and lyrics in various musical genres, with a review of major developments in the repertoire. Topics addressed could include the ethics of borrowed forms, instrumentation and collaboration, commercial songwriting standards and practices, major aspects of music industries, and reception. Students will have the opportunity to create compositions, and pursue projects related to aspects of the field. Musical ability and training are not required.

Breadth Requirements: Creative and Cultural Representations (1)

CRE273H1 - The Body: An Exercise

Previous Course Number: VIC273H1
Hours: 24S

This course will sketch the vital role or the drama of the human body, aspects of its performance, comedy, tragedy and death, through selected parts of history, in life and as reflected in "art."

Exclusion: VIC273H1
Breadth Requirements: Creative and Cultural Representations (1)

CRE275H1 - Creative Writing: Short Fiction

Previous Course Number: VIC275H1
Hours: 24S

This course is for aspiring fiction writers who wish to deepen their craft. Each seminar will feature a lecture on technical issues such as plot and characterization, as well as an analysis of a short story by a classic writer. Students will write their own stories, with editorial input from the instructor.

Exclusion: VIC275H1, ENG389H1
Breadth Requirements: Creative and Cultural Representations (1)

CRE276H1 - Writing for the Stage and Screen

Previous Course Number: VIC276H1
Hours: 24L

A creative writing course for students interested in an introduction to writing for theatre and film. Seminars will focus on technical issues including plot, characterization, dramatic structure, dialogue, image-based storytelling, and aspects of dramaturgy. Seminars may also include analyses of notable plays and screenplays across a variety of genres. Students will write their own scripts, with editorial input from the instructor. Admission by application.

Exclusion: VIC276H1, CIN349H1
Breadth Requirements: Creative and Cultural Representations (1)

CRE279H1 - Creative Non-Fiction

Previous Course Number: VIC279H1

Hours: 24S

This course examines the forms, style, aims, and ethics of non-fictional forms such as documentary writing, journalism, and life-writing. It combines the study of examples from contemporary media with exercises in writing non-fictional prose.

Exclusion: VIC279H1, ENG387H1

Breadth Requirements: Creative and Cultural Representations (1)

CRE280H1 - Creative Writing: Poetry

Previous Course Number: VIC280H1

Hours: 24S

A workshop course (with a literature component) in writing poetry. Designed for those with a serious ambition to be writers as evinced in work they are already doing. The literature component emphasizes multicultural dimensions of contemporary writing in English.

Exclusion: VIC280H1, ENG388H1

Breadth Requirements: Creative and Cultural Representations (1)

CRE281H1 - Popular Music, Technology, and the Human

Previous Course Number: VIC281H1

Hours: 24S

This course explores ways in which popular music, sound and sound technologies have influenced our understanding of the recent human condition. Drawing on a variety of theoretical perspectives, we consider the musical uses of technology as both a material culture and a set of distinctly innovative practices that can create powerful transformations of consciousness, meaning and value.

Exclusion: VIC281H1

Breadth Requirements: Creative and Cultural Representations (1)

CRE282H1 - Emerging Genres in Creative Writing

Hours: 24S

A workshop-based seminar on creative writing in an emerging field. Specific genres may include flash fiction, autofiction, interactive fiction, slam poetry, the graphic novel, or the podcast. Focus in any given year to be determined by the instructor and advertised on the Victoria College academic programs website.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

CRE335H1 - Creativity and Collaboration in Social Enterprise

Previous Course Number: VIC335H1

Hours: 24L

The course reflects critically on the role of a wide range of new enterprises and entrepreneurs in driving innovation and dynamism. Whether social enterprises, start-ups, community-based organizations, or for-profits, a variety of organizational forms are approaching thorny societal challenges such as driving economic inclusion or combating climate change. Students will explore how the public, private and community sectors can work together to develop creative, ethical and effective approaches to tackling 'wicked' problems.

Prerequisite: 4.0 credits

Exclusion: VIC335H1

Breadth Requirements: Society and its Institutions (3)

CRE345H1 - Evidence Based Approaches to Creativity

Hours: 24S

The seminar course pursues two goals. First, it provides an introduction to the latest scientific findings concerning creativity, by drawing on a broad range of scientific disciplines, such as psychology, neurobiology, sociology, anthropology, and education science. The topics include creative personality, the process of creation, as well as the sociocultural context of creativity. Second, it investigates various techniques that can help us learn to be more creative. This will involve discussions on how to choose one's domain and field, be intrinsically motivated, how to collaborate, and how to brainstorm productively. Students will be given an opportunity to apply these techniques to specific fields of their choosing.

Prerequisite: 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

CRE349H1 - Special Topics in Creativity

Hours: 24S

Topics vary from year to year depending upon instructor. Please see the Victoria College website for specific details about this year's offerings:

<https://vic.utoronto.ca/academic-programs/special-topics-courses/cre349h>.

Prerequisite: Completion of 4.0 credits.

Breadth Requirements: Creative and Cultural Representations (1)

CRE350Y1 - Creative Writing

Previous Course Number: VIC350Y1

Hours: 48S

A workshop course (with a literature component) in writing fiction and poetry. Designed for those with a serious ambition to be writers as evinced in work they are already doing. Does not offer instruction for beginning writers. Presupposes perfect and sophisticated written language skills. The Literature component emphasizes multicultural dimensions of contemporary writing in English. Admission by application.

Exclusion: VIC350Y1

Breadth Requirements: Creative and Cultural Representations (1)

CRE370H1 - Music and the Imagination

Previous Course Number: VIC370H1

Hours: 24S

This course explores how music creatively reflects and inspires our sense of self, place and community through readings, close listening, case studies, and creative responses. We consider various sites of musical imagination, and the genres that intersect with them. Course discussion addresses how music participates in the social life of creativity, imagination and fantasy, and what these roles mean for music's significance in society and culture. No prior experience in music composition required.

Prerequisite: Completion of 4.0 credits

Exclusion: VIC370H1

Breadth Requirements: Creative and Cultural Representations (1)

CRE371H1 - Documenting Reality

Previous Course Number: VIC371H1

Hours: 24S

This seminar course explores methods of capturing, representing, and constructing reality through documentary media. Emphases will include opportunities and challenges brought by technical developments in the digital era, and the history and evolution of documentary work in print and/or photography. Students consider methods and innovations of major practitioners; ethical issues such as privacy, subjectivity, and objectivity; and partisanship and the effects of artificial intelligence and other automatic tools.

Prerequisite: Completion of 4.0 credits

Exclusion: VIC371H1

Breadth Requirements: Creative and Cultural Representations (1)

CRE372H1 - Reviewing, Reception, and Reading Communities

Previous Course Number: VIC372H1

Hours: 24S

While readers and audiences often are considered to be cultural "consumers," this course will consider reception as an active, creative, and often collaborative activity, by examining formal and informal practices of reviewing and response that may include fan/fanfic cultures, book clubs, community and nation-wide reading programs, and award competitions. Such contexts of reception will be considered along with their social, economic, and ethical implications.

Prerequisite: Completion of 4.0 credits

Exclusion: VIC372H1

Breadth Requirements: Creative and Cultural Representations (1)

CRE373H1 - Archives and the Art of Memory

Hours: 24S

What is an Archive? What kind of history and culture does it Preserve? Or does it bury things forever? Who gets to be an archivist and who gets to tell the story? How can an archive preserve the stories of marginalized people? Can voices from the archive be brought back to life? In the context of a series of readings, presentations and projects the course focuses on case studies of government-housed and sponsored archives, family archives, archives of cultural institutions, grassroots archival initiatives, and of

course digital archives. Each student will have an opportunity to produce an artistic project based on an archival research or create their own imaginary archive.

Prerequisite: 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

CRE374H1 - Cultural Encounters: Identity and Transformation in the Arts

Hours: 24S

This course focuses on specific scenes of cultural cross-pollination and on how these encounters are reflected in the arts. Areas of investigation might include the Harlem Renaissance, French Surrealism in the Caribbean, Bollywood / Hollywood, Indigenous Hip-Hop, or contemporary Toronto as a convergence of creative energy. How have artists from marginalized communities taken up and adapted modes of expression for their own creative purposes? How can new forms of artistic representation contest and undermine systemic social and political inequalities? This course focuses on liberating aesthetic innovations that respond to historically embedded cultural encounters.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

CRE375H1 - Histories of Creativity

Hours: 24S

This course provides an opportunity for in-depth study of the way creativity and innovation were practiced in earlier periods, in order to explore creativity as a historically and culturally contingent category and provide a comparative grounding for contemporary concepts of creativity. Historical case studies will range from Classical antiquity to the nineteenth century and may include topics such as how new forms and ideas emerge in the arts, architecture, and design; innovation in scientific knowledge and its representation; practices of improvisation in theatre and other artforms; the evolution of new genres and media.

Breadth Requirements: Creative and Cultural Representations (1)

CRE449H1 - Special Topics in Creativity

Hours: 24S

Topics vary from year to year depending upon instructor. Please see the Victoria College website for specific details about this year's offerings:

<https://vic.utoronto.ca/academic-programs/special-topics-courses/cre449h>.

Prerequisite: 9.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

CRE470H1 - Soundscapes

Previous Course Number: VIC470H1

Hours: 24S

This course surveys the growth of the field of Acoustic Ecology and the aesthetic, political, and ethical questions it engages. Students learn about creative and musical practices associated with this new attention to sound, and they gain experience with the practice of field recording and sonic-environmental sampling. The course culminates with a final Soundscape composition or creative mapping project. No previous experience in sound recording or composition required.

Prerequisite: Completion of 9.0 credits

Exclusion: VIC470H1

Breadth Requirements: Creative and Cultural Representations (1)

CRE479Y1 - The Novel: A Master Class

Previous Course Number: VIC479Y1

Hours: 48S

Advanced young writers in this fourth-year seminar work to produce a short novel appropriate for submission to an agent or a publisher. The class does not offer instruction for beginning writers. It is intended for serious writers interested in learning about writing novels at a professional level. Admission by application.

Prerequisite: 9.0 credits including 0.5 credit in creative writing

Exclusion: VIC479Y1

Breadth Requirements: Creative and Cultural Representations (1)

CRE479H1 - Fiction: A Master Class

Hours: 24S

A workshop course in writing fiction. Designed for those with a serious ambition to be writers as evinced in work

they are already doing. Does not offer instruction for beginning writers. Admission by application.

Prerequisite: 9.0 credits including 0.5 credit in creative writing

Exclusion: [VIC479Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

CRE480H1 - Poetry: A Master Class

Previous Course Number: VIC480H1

Hours: 24S

A workshop course in writing poetry. Designed for those with a serious ambition to be writers as evinced in work they are already doing. Does not offer instruction for beginning writers. Presupposes perfect and sophisticated written language skills. Admission by application.

Prerequisite: 9.0 credits including 0.5 CRE credit

Exclusion: [VIC480H1](#)

Breadth Requirements: Creative and Cultural Representations (1)

Education and Society

EDS260H1 - Equity and Diversity in Education

Previous Course Number: VIC260H1

Hours: 24L

This course focuses on raising awareness and sensitivity to equity and diversity issues facing teachers and students in diverse schools and cultural communities. It builds knowledge of how oppression works and how cultural resources and educational practices may be brought to bear on reducing oppression and improving equity. Restricted to students enrolled in the Education and Society Minor.

Exclusion: [VIC260H1](#), [JSV202H1](#)

Breadth Requirements: Society and its Institutions (3)

EDS261H1 - Child and Adolescent Development in Education

Previous Course Number: VIC261H1

Hours: 36L

This course examines how children and adolescents develop and explores how best to facilitate their growth and learning in the area of education. Major topics include

cognitive, emotional, social, moral, physical and language development. Themes addressed include interpersonal relationships such as pro-social and aggressive behaviour, as well as the influence of schooling, family life and culture. This course includes an experiential learning component whereby students will profile a child based on their cognitive, social-emotional, and physical development. Restricted to students enrolled in the Education and Society Minor.

Exclusion: [VIC261H1](#), [JSV201H1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

EDS262H1 - Communication and Conflict Resolution in Education

Previous Course Number: VIC262H1

Hours: 36L

This course aims to develop an understanding of social conflict and cultural diversity. How does conflict act as a catalyst for change? What do socio-cultural, cognitive, and motivational approaches teach us about conflict? Topics include: effects of conflict, human rights principles, cross-cultural understanding. Restricted to students enrolled in the Education and Society Minor.

Exclusion: [VIC262H1](#), [JSV200H1](#)

Breadth Requirements: Society and its Institutions (3)

EDS265H1 - Introduction to Teaching

Previous Course Number: VIC265H1

Hours: 36S

Builds understanding of teaching as professional practice. The course primarily focuses on the research base underlying policies and documents such as the Foundations of Professional Practice. This course is restricted to students enrolled in the Education and Society Minor.

Exclusion: [VIC265H1](#), [VIC362H1](#)

Breadth Requirements: Society and its Institutions (3)

EDS355H1 - Social Justice in Education

Hours: 36S

This course enables students to develop an understanding of historical and contemporary issues relating to social justice in education. The course builds an anti-oppressive praxis for working in diverse educational contexts, from classrooms and schools to state institutions

and non-governmental organizations. The course approaches oppression as an outcome of interrelated structures co-constructed by race, ethnicity, disability, gender, sexuality, class, nationality, and age, focusing on the ways in which these intersect and influence one another. Students will develop and apply research skills in the design and implementation of a social action initiative relating to an equity, diversity, or social justice issue.

Prerequisite: 4.0 credits

Breadth Requirements: Society and its Institutions (3)

EDS356H1 - Multiliteracies in Education

Previous Course Number: VIC356H1

Hours: 36L

This course introduces students to a multiliteracies framework through the pedagogical lens of social justice and diversity. Class participants learn to integrate the multimodalities of literacy in their teaching practice and expand their understanding of 21st-century literacy. Themes include language development, print literacy, digital literacy, critical literacy, visual literacy and multicultural perspectives on literacy. This course requires students' enrolment in the Education and Society Minor or permission of the instructor.

Exclusion: VIC356H1

Recommended Preparation: EDS265H1/ VIC265H1/ VIC362H1

Breadth Requirements: Society and its Institutions (3)

EDS357H1 - Education in a Global Context

Hours: 24L

This course provides a historical overview and contemporary analysis of perspectives and practices of international education with a focus on international development and policy. Factors that shape the global architecture of education will be explored; these may include theories of globalization, education reform, comparative education, peace education, international schooling and global citizenship education. Students will have the opportunity to analyze education reforms and to address issues related to access and quality of learning.

Restricted to students enrolled in the Education and Society Minor.

Recommended Preparation: EDS260H1

Breadth Requirements: Society and its Institutions (3)

EDS358H1 - Residential Schools and Education in Canada

Hours: 24S

An exploration of Residential Schools in Canada and their impacts on education and lives of First Nations, Métis and Inuit peoples. This course investigates the historical educational ideology of residential schools and their relationship to colonization, the role of government and organized religion in the residential school system, and contemporary strategies that encourage stable and trusting relationships with Indigenous communities. This course will also explore aspects of the Final Report of the Truth and Reconciliation Commission Calls to Action.

Prerequisite: Completion of 9.0 credits

Recommended Preparation: VIC260H1/ EDS260H1

Breadth Requirements: Creative and Cultural Representations (1)

EDS360Y1 - Education Internship

Previous Course Number: VIC360Y1

Students are required to complete an internship in an educational environment. This can be satisfied by participation in an organization with the approval of the Program Coordinator. Written assessment of the internship is required. Restricted to students enrolled in the Education and Society Minor. Not eligible for CR/NCR option.

Prerequisite: EDS265H1/ VIC265H1/ VIC362H1

Exclusion: EDS360H1, VIC360H1, VIC360Y1, EDS360Y0, VIC360Y0

Breadth Requirements: Society and its Institutions (3)

EDS360Y0 - Education Internship - International

Previous Course Number: VIC360Y0

Students are required to complete an internship in an educational environment in an international or out-of-province context. Arranged through Victoria College, the International/Out-of-province Internship is only for students in the Education & Society Minor. Written assessment of the internship is required. Restricted to students enrolled in the Education and Society Minor. Not eligible for CR/NCR option.

Prerequisite: EDS265H1/ VIC265H1/ VIC362H1

Exclusion: EDS360H1, EDS360Y1, VIC360H1, VIC360Y0, VIC360Y1

Breadth Requirements: Society and its Institutions (3)

EDS360H1 - Education Internship

Previous Course Number: VIC360H1

Students are required to complete an internship in an educational environment. This can be satisfied by participation in an organization with the approval of the Program Coordinator. Written assessment of the internship is required. Restricted to students enrolled in the Education and Society Minor. Not eligible for CR/NCR option.

Prerequisite: EDS265H1/ VIC265H1/ VIC362H1

Exclusion: EDS360Y1, VIC360H1, VIC360Y1

Breadth Requirements: Society and its Institutions (3)

EDS360H0 - Education Internship - International

Students are required to complete an internship in an educational environment in an international or out-of-province context. Arranged through Victoria College and the Centre for International Exchange, the International/Out-of-province Internship is only for students in the Education & Society Minor. Written assessment of the internship is required. Restricted to students enrolled in the Education and Society Minor. Not eligible for CR/NCR option.

Prerequisite: EDS265H1/ VIC265H1

Exclusion: EDS360H1, EDS360Y1, EDS360Y0,

VIC360H1, VIC360Y0, VIC360Y1

Breadth Requirements: Society and its Institutions (3)

EDS363H1 - Teaching Math: The JUMP Approach

Previous Course Number: VIC363H1

Hours: 24S

This course will challenge the widely accepted idea that people need to be born with a special gift or natural ability to excel in mathematics. New research in education and cognitive science suggests that young learners often struggle in school because they are not taught in a way that allows their brains to work efficiently. This course will examine barriers that prevent students from learning and methods of teaching that can help all students reach their full potential (not only in math). Math lovers and math phobic students are welcome: the course aims to help students develop deeper levels of confidence and understanding in mathematics so they can become effective teachers themselves.

Exclusion: VIC363H1

Breadth Requirements: Society and its Institutions (3)

EDS368H1 - Special Topics in Education and Society

Previous Course Number: VIC368H1

Hours: 24L

In-depth study of a topic related to education and society. Content varies with instructor. Please see Victoria College website for current offerings:

<https://vic.utoronto.ca/academic-programs/special-topics-courses/eds368h>.

Prerequisite: 9.0 credits

Recommended Preparation: One 200-level course in Education and Society

Breadth Requirements: Society and its Institutions (3)

EDS369H1 - Special Topics in Education and Society

Previous Course Number: VIC369H1

Hours: 24L

In-depth study of a topic related to education and society. Content varies with instructor. Please see Victoria College website for current offerings:

<https://vic.utoronto.ca/academic-programs/special-topics-courses/eds369h>.

Prerequisite: 9.0 credits

Recommended Preparation: One 200-level course in Education and Society

Breadth Requirements: Society and its Institutions (3)

Literature and Critical Theory

LCT202Y1 - Forms of Representation

Previous Course Number: VIC202Y1

Hours: 48L/24T

This course explores representation as a cultural and political problem from antiquity to the modern era. Representation will be analyzed as a means of depicting or constructing reality and as a tool for constituting individual and collective subjectivity. We consider literary and other modes of representation in their historical contexts.

Exclusion: VIC202Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

LCT203H1 - Empires I

Previous Course Number: VIC203H1

Hours: 24L/12T

This course examines the literary and non-literary representations that accompany imperial conquests and hegemony from pre-modern times to the emergence of the modern nation-state. We compare the establishment, interpretation and reinvention of cultural forms of empire (e.g. Ottoman, Persian, Roman) at local, national, transnational and global levels.

Exclusion: VIC203H1, VIC203Y1

Breadth Requirements: Creative and Cultural Representations (1)

LCT204H1 - Canons and Canonicity

Previous Course Number: VIC204H1

Hours: 24L

This course will consider the problem of canons in a variety of contexts: the aesthetic (including the literary, visual arts and music), but also the religious, the political, the philosophical and other discursive forms. Special focus will be on the problem of the relations across these boundaries.

Exclusion: VIC204H1

Breadth Requirements: Thought, Belief and Behaviour (2)

LCT205H1 - Empires II

Previous Course Number: VIC205H1

Hours: 24L/12T

This course examines the literary and non-literary representations that accompany imperial conquests and hegemony from the emergence of the modern nation-state through more recent developments in globalization. We compare the establishment, interpretation and reinvention of cultural forms of empire (e.g. British, Japanese, Spanish) at local, national, transnational and global levels.

Exclusion: VIC205H1, VIC203Y1

Breadth Requirements: Creative and Cultural Representations (1)

LCT249H1 - Special Topics in Literature and Critical Theory

Hours: 24S

Studies in aspects of Literature and Critical Theory. Topics vary by instructor and are listed on the Victoria College programs website: <https://vic.utoronto.ca/academic-programs/special-topics-courses/lct249h>. Not offered every year.

Breadth Requirements: Creative and Cultural Representations (1)

LCT300Y0 - Special Topics in Literature and Critical Theory

Previous Course Number: VIC300Y0

Hours: 48S

Special topic in Literature and Critical Theory. Topics vary by instructor and are listed on the Victoria College programs website: <https://vic.utoronto.ca/academic-programs/special-topics-courses/lct300y>.

Prerequisite: 9.0 credits

Recommended Preparation: LCT202Y1

Breadth Requirements: Creative and Cultural Representations (1)

LCT301H1 - Critical Writing Seminar

Previous Course Number: VIC301H1

Hours: 24S

This course is a writing intensive class devoted to the practice and analysis of critical writing. We will explore the critical tradition, the public(s) for whom one writes, and the choice of voice, point of view, and writerly form. The class will be structured around workshop style discussion and writing exercises.

Exclusion: VIC301H1

Recommended Preparation: LCT202Y1

Breadth Requirements: Creative and Cultural Representations (1)

LCT302H1 - Pasts and Futures

Previous Course Number: VIC302H1

Hours: 24S

An introduction to representations of history, in which we will consider concepts that turn on the problem of time

such as tradition, periodization, genealogy, memory, crisis, revolution, eschatology, and utopia.

Exclusion: [VIC302H1](#)

Recommended Preparation: [LCT202Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

LCT303H1 - Memory and Trauma

Previous Course Number: VIC303H1

Hours: 24S

This course will explore the problem of memory in relation to both collective and individual trauma. What pressure does trauma place on language, and agency, and how does it figure in commemoration, narrative, monumentalization, and other modes of representing the past?

Exclusion: [VIC303H1](#)

Recommended Preparation: [LCT202Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

LCT304H1 - Praxis and Performance

Previous Course Number: VIC304H1

Hours: 24S

This course will explore what it means to “act” in cultural, political, religious, and psychological realms. We focus on the historically shifting relations between theory and practice, between artifice and agency, and between theatricality and spectatorship.

Exclusion: [VIC304H1](#)

Recommended Preparation: [LCT202Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

LCT305H1 - Institutions and Power

Previous Course Number: VIC305H1

Hours: 24S

This course will consider some of the ideologies and practices of various institutions at work in the production and transmission of cultural objects and social power. These may include the family, museum, hospital, prison, university, library, and theatre, as well as fields such as publishing and religion.

Exclusion: [VIC305H1](#)

Recommended Preparation: [LCT202Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

LCT306H1 - Culture and Media

Previous Course Number: VIC306H1

Hours: 24S

This course will consider relations between various cultural media – such as film, literature, photography, visual art, architecture – with specific attention to the historical demands and possibilities posed by technological change.

Exclusion: [VIC306H1](#)

Recommended Preparation: [LCT202Y1](#)

Breadth Requirements: Creative and Cultural Representations (1)

LCT307H1 - Periodization and Cultural History

Previous Course Number: VIC307H1

Hours: 24S

This course explores the phenomenon of historical periodization in its various modes, including as a stylistic concept, a set of discursive norms for cataloguing and grouping cultural forms, and a means of organizing and contesting historical narratives.

Exclusion: [VIC307H1](#)

Recommended Preparation: [LCT202Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

LCT308H1 - Identities

Previous Course Number: VIC308H1

Hours: 24S

Though “identity” might suggest sameness, it is historically unstable and has many components, including ability/disability, age, class, ethnicity, gender, health/illness, ‘race,’ sexuality, and religion. This course considers the complexities of identity-formation and identity-transformation as captured in literary texts and cultural artefacts over a wide range of historical and cultural contexts.

Exclusion: [VIC308H1](#)

Recommended Preparation: [LCT202Y1](#)

Breadth Requirements: Thought, Belief and Behaviour (2)

LCT349H1 - Special Topics in Literature and Critical Theory

Studies in aspects of Literature and Critical Theory. Topics vary by instructor and are listed on the Victoria College programs website:
<https://vic.utoronto.ca/academic-programs/special-topics-courses/lct349h>. Not offered every year.

Recommended Preparation: LCT202Y1

Breadth Requirements: Creative and Cultural Representations (1)

LCT401Y1 - Seminar in Comparative Literature

Previous Course Number: VIC401Y1
Hours: 48S

This course offers senior students in Literature and Critical Theory the opportunity to take part in a graduate seminar in Comparative Literature. Topics change annually and are listed on the Victoria College programs website.

Prerequisite: Permission of instructor

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

LCT401H1 - Seminar in Comparative Literature

Previous Course Number: VIC401H1
Hours: 24S

This course offers senior students in Literature and Critical Theory the opportunity to take part in a graduate seminar in Comparative Literature. Topics change annually and are listed on the Victoria College programs website.

Prerequisite: Permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

LCT402H1 - Translation and Comparativity

Previous Course Number: VIC402H1
Hours: 24S

This course will consider questions of adaptation, appropriation, imitation, hybridity and incommensurability across languages, geographical regions, epochs, media, and academic disciplines. Course topics may include the

role of translation in the historical projects of nation-building and empire.

Prerequisite: LCT202Y1 and one of: LCT302H1, LCT303H1, LCT304H1, LCT305H1, LCT306H1, LCT307H1, LCT308H1. Students who do not meet the prerequisites should contact the department.

Exclusion: VIC402H1

Breadth Requirements: Thought, Belief and Behaviour (2)

LCT403H1 - Advanced Topics in Literature and Critical Theory

Previous Course Number: VIC403H1
Hours: 24S

In-depth examination of selected issues in Literature and Critical Theory. Topics vary by instructor and are listed on the Victoria College programs website.

Prerequisite: LCT202Y1 and one of: LCT302H1, LCT303H1, LCT304H1, LCT305H1, LCT306H1, LCT307H1, LCT308H1. Students who do not meet the prerequisites should contact the department.

LCT494Y1 - LCT Senior Research Paper

Previous Course Number: VIC494Y1

This course provides an opportunity to design an interdisciplinary course of study, not otherwise available within the Faculty, with the intent of addressing specific topics in Literature and Critical Theory. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits and permission of Program Coordinator.

Exclusion: VIC494Y1

LCT494H1 - LCT Senior Research Paper

Previous Course Number: VIC494H1

This course provides an opportunity to design an interdisciplinary course of study, not otherwise available within the Faculty, with the intent of addressing specific topics in Literature and Critical Theory. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of

Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: Completion of 14.0 credits and permission of Program Coordinator.

Exclusion: VIC494H1

Material Culture and Semiotics

MCS223H1 - Signs, Meanings, and Culture

Previous Course Number: VIC223Y1

Hours: 24S

This course will introduce the principles of semiotic thought, applying them to the study of language, social organization, myth, and material culture. Examples may be drawn from everyday life as well as from classical and popular art and music, and from screen culture.

Exclusion: VIC223Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

MCS224Y1 - Approaches to Material Culture

Previous Course Number: VIC224Y1

Hours: 24P/48S

This course is about things - the everyday objects of past and present cultures. It examines the meanings people have invested in objects and how those meanings have changed over time. Using interdisciplinary approaches, students investigate objects found in homes, retail spaces, cities, art galleries and museums in order to develop new understandings of the objects that structure their daily lives and their material world.

Exclusion: VIC224Y1, VIC224H1, MCS224H1

Breadth Requirements: Thought, Belief and Behaviour (2)

MCS224H1 - Approaches to Material Culture

Previous Course Number: VIC224H1

Hours: 12P/24S

This course is about things - the everyday objects of past and present cultures. It examines the meanings people

have invested in objects and how those meanings have changed over time. Using interdisciplinary approaches, students investigate objects found in homes, retail spaces, cities, art galleries and museums in order to develop new understandings of the objects that structure their daily lives and their material world.

Exclusion: VIC224H1, VIC224Y1, MCS224Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

MCS225Y1 - A History of the World in Objects and Signs

Previous Course Number: VIC225Y1

Hours: 24P/48S

Through a multidisciplinary approach, this course opens new perspectives on the history of artifacts, the evolution of a world of things and signs, and the meanings of material culture. Lectures and tutorials are supplemented by hands-on exercises in museums and local communities.

Exclusion: VIC225Y1

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

MCS226H1 - The Materiality of Magic: Sorcery, Spells, Devotion, and Divination

Hours: 24S

Magic is a wide field of study comprising spirituality, mysticism, paranormal events, the occult, and other unexplained phenomena. This course aims to (re-)materialize magic and to anchor it in the physical objects that have played an indispensable role in the practice and performance of ceremonies and rituals from Prehistory to the present day. Students will apply theoretical lenses to understand how objects – relics, icons, effigies, charms, amulets – are transformed through, and become instruments of, rituals that control, placate, or please the supernatural world. The course brings together a range of disciplines and perspectives to contextualize and to challenge our perception of the material manifestations of magic.

Recommended Preparation: MCS224H1/ MCS225Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

MCS320H1 - Semiotics of Visual Art

Previous Course Number: VIC320H1
Hours: 24L

Theories and models of applied semiotics: analysis of sign systems as articulated in various forms of artistic and cultural production.

Prerequisite: MCS223H1/ VIC223Y1
Exclusion: VIC320H1
Breadth Requirements: Creative and Cultural Representations (1)

MCS322H1 - Topics in Semiotics

Previous Course Number: VIC322H1
Hours: 24S

An in-depth examination of some aspect of semiotic theory or practice. Content in any given year depends on instructor. Not offered every year.

Prerequisite: MCS223H1/ VIC223Y1
Breadth Requirements: Creative and Cultural Representations (1)

MCS323H1 - Theories of the Sign

Previous Course Number: VIC323Y1
Hours: 24S

Theories of signification studied with a focus on major works in the semiotics of modern and contemporary culture.

Prerequisite: MCS223H1/ VIC223Y1
Exclusion: VIC323Y1
Breadth Requirements: Creative and Cultural Representations (1)

MCS325H1 - Media Semiotics

Previous Course Number: VIC325H1
Hours: 24L

This course will deal with media semiotics, both in the traditional sense of the study of meanings in all media (from print to digital) and in how new digital media are changing the nature of signification and communication. The course will look at the usage of semiotics to study how meaning is negotiated in interactive media versus the older and still extant one-way media (print and radio, for example). The course will utilize actual media materials

(comic books, television programs, text messages, and so on) on which semiotic analysis can be conducted.

Prerequisite: MCS223H1/ VIC223Y1
Exclusion: VIC325H1
Breadth Requirements: Creative and Cultural Representations (1)

MCS326H1 - The Material Culture of Food

Previous Course Number: VIC326H1

This course explores the material cultures which form around food and foodways in contemporary culture. It looks at foods as objects of production and consumption and at the material landscapes (culinary tools, the geography of the kitchen and restaurant, the archives - recipes, cookbooks, menus - that home cooks or chefs use) in order to "expose" the social, cultural and political dimensions of cooking, entertaining and eating.

Prerequisite: Completion of 9.0 credits
Exclusion: VIC326H1; VIC229H1 (Special Topics in Material Culture: The Material Culture of Food), offered in Winter 2016
Breadth Requirements: Thought, Belief and Behaviour (2)

MCS327H1 - Digital Material Culture

Previous Course Number: VIC327H1
Hours: 24S

This course explores the materiality of digital objects, from image and music files to digital documents to video games and other software, and considers their status as material culture. It involves the primary study of digital objects and also considers the technological infrastructures, cultural contexts, and signifying systems in which they are produced, circulated, and interpreted.

Prerequisite: Completion of 9.0 credits
Exclusion: VIC327H1
Breadth Requirements: Thought, Belief and Behaviour (2)

MCS328H1 - Materializing Cultural Identities

Previous Course Number: VIC328H1
Hours: 24S

Students examine the expression of cultural identities in objects. Students are taught to think critically about the

construction, use, display, and exchange of objects with significance for cultural identity. In addition to lectures and discussions, students participate in guided visits to sites – everyday, ritual, institutional – where negotiation of identity through objects occurs.

Prerequisite: Completion of 9.0 credits

Exclusion: VIC328H1

Breadth Requirements: Creative and Cultural Representations (1)

MCS329Y1 - Internship in Material Culture

Previous Course Number: VIC329Y1

A practical or experiential learning opportunity under the supervision of a faculty member, normally at a museum, art gallery or other cultural agency (as approved by the supervisor). This course is restricted to students enrolled in the Material Culture and Semiotics program. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits

Exclusion: VIC329Y1

MCS329H1 - Internship in Material Culture

Previous Course Number: VIC329H1

A practical or experiential learning opportunity under the supervision of a faculty member, normally at a museum, art gallery or other cultural agency (as approved by the supervisor). This course is restricted to students enrolled in the Material Culture and Semiotics program. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits

Exclusion: VIC329H1

MCS330H1 - Topics in Material Culture

Hours: 24S

An in-depth examination of some aspect of Material Culture theory or practice. Content in any given year depends on instructor. Not offered every year.

Prerequisite: Completion of 9.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

MCS331H1 - The Materiality of Information

Hours: 24S

This course looks at the material culture of information from a global historical perspective. It explores the roots of our modern understanding of information through a series of case studies and practical activities like learning to write cuneiform characters on clay tablets, and cutting quill pens. These practical activities are framed by discussions of the material and cultural factors that influenced the development of information technologies throughout history.

Prerequisite: Completion of 9.0 credits

Exclusion: MCS330H1 (Topics in Material Culture: Materiality of Information), offered in Fall 2023

Breadth Requirements: Thought, Belief and Behaviour (2)

MCS336H1 - Material Culture of Wine

Hours: 24L

This course explores the material cultures of wine in historical and contemporary contexts. Today, the world produces almost 300 million hectolitres of wine annually and wine is produced and consumed on every inhabited continent. It's a global industry worth more than 30 billion dollars every year and wine is traditionally valuable as a tangible expression of family, national, and regional identity. Wine is an edible, material commodity, an expression of class status, and considered by many as an integral part of a meal. Through weekly tastings of wine from across the globe, this course considers wine as vital objects of production and consumption and as material landscapes (technologies of transport and vinification, the nature of wine service, and environmental engagements) in order to explore the social, cultural, and political dimensions of drink on a global scale. Students must be of legal drinking age, and will have the option of tasting c. 2-5 oz of wine per class. This course has a mandatory Materials Fee to cover the cost of wine. The fee will be included on students' ACORN invoice. See the Victoria College website for the current amount.

Prerequisite: 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

MCS373H1 - Materialities of Music

Previous Course Number: VIC373H1

Hours: 24L

Music is often understood as the most ephemeral and transcendent of the fine arts, even if that means overlooking the physical realities of music's production and dissemination. We will examine these materialities here, from paper and technologies of print, through to instruments for making and studying sound, and architectural spaces for its market circulation; we will see how music and its instruments provided the raw material for the emergence of a nineteenth-century science of acoustics.

Prerequisite: Completion of 9.0 credits

Exclusion: VIC373H1

Recommended Preparation: 0.5 credit in Creative Expression and Society, Material Culture, or Music.

Breadth Requirements: Creative and Cultural Representations (1)

MCS429H1 - Advanced Topics in Material Culture, Information Systems and Meaning-Making

Previous Course Number: VIC429H1

Hours: 24S

Content varies depending on instructor. Selected issues are examined in depth and at an advanced level.

Prerequisite: Completion of 9.0 credits including MCS224Y1/ MCS225Y1, or permission of instructor

Breadth Requirements: Creative and Cultural Representations (1)

MCS444H1 - Themes in Material Culture

Previous Course Number: VIC444H1

Hours: 24S

This fourth year seminar, required for students pursuing a minor in material culture, will have opportunities to explore themes in material culture studies, museum exhibitions and collections as well as processes of object analysis in greater depth and at an advanced level. Specific topics and research projects will vary according to the interests and specialties of course instructors and students.

Please see the Victoria College website for the current topics: <https://vic.utoronto.ca/academic-programs/special-topics-courses/mcs444h>

Prerequisite: Completion of 9.0 credits including MCS224Y1/ MCS225Y1, or permission of instructor

Exclusion: VIC444H1

Breadth Requirements: Creative and Cultural Representations (1)

Renaissance Studies

REN240Y0 - The Civilization of Renaissance Europe

Previous Course Number: VIC240Y0

An interdisciplinary introduction to the civilization of the Renaissance illustrated by a study of the institutions, thought, politics, society and culture of both Italy and Northern Europe. Italian city states such as Florence, Urbino and Venice, Papal Rome and despotic Milan are compared with the northern dynastic monarchies of France and England. (*Offered as part of the Summer Abroad program*)

Exclusion: VIC240Y0

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

REN240H1 - The Renaissance in Italy

Hours: 24S

An interdisciplinary introduction to the Renaissance in Italy illustrated by a study of the institutions, thought, politics, art, and culture that emerged in the period. Considering key sites of power and creativity like Florence, Venice, Milan, and Rome, this course will examine the dynamic new ways Renaissance Italians understood themselves, others, and the world. Taking into account the full spectrum of Renaissance culture, including constructions of gender and other emerging forms of identity, this course will address broad historical developments and explore the creative works and impact of artists like Michelangelo and Sofonisba Anguissola; architects like Brunelleschi; cultural patrons like the Medici family and Isabella d'Este; and writers like Laura Cereta and Niccolò Machiavelli.

Exclusion: REN240Y1

Breadth Requirements: Creative and Cultural Representations (1)

REN241H1 - Renaissance Masterworks and Remixes

Previous Course Number: VIC241H1

Hours: 24S

Focusing on one or more iconic works in literature, music, and the visual arts, this course explores the most celebrated cultural productions of the Renaissance and their subsequent adaptations and appropriations in later and modern popular culture.

Exclusion: VIC241H1, VIC241Y1

Breadth Requirements: Creative and Cultural Representations (1)

REN244H1 - The Renaissance in Europe and the World

Hours: 24S

An interdisciplinary introduction to the Renaissance as it spread beyond Italy, both as it took root in Northern Europe and made an impact around the globe. This class will examine how the cultural forms of the Renaissance – art, architecture, philosophy, politics, music, drama, and literature – developed through engagement with ancient Roman and Greek models and expanded across Europe (in such places as the Iberian Peninsula, France, England, Scotland, Germany, the Low Countries, and Poland). It will also explore how Renaissance culture shaped and was shaped by interactions between Europeans and peoples in Africa, the Americas, and Asia. Taking into account the contexts of religious conflict, technological change, colonization, gender dynamics, and cross-cultural exchanges brought about by warfare and global networks of trade, this class will use a variety of disciplinary frameworks to examine the Renaissance as an expansive cultural phenomenon.

Exclusion: REN240Y1

Breadth Requirements: Creative and Cultural Representations (1)

REN245H1 - Race and Power in the Renaissance

Hours: 24S

This course explores the relationship between race, imperialism, and culture in the Renaissance world. Students investigate the intellectual frameworks through which early modern Europeans made sense of human diversity, with a focus on the enduring influence of these ideologies in the perception and representation of difference today. Course materials may include such examples as portraits of a Black duke in Renaissance Florence, trial records of falsely accused Jewish men, clothes to disguise oneself as an Ottoman princess, and plays featuring Roma fortune-tellers.

Prerequisite: None

Breadth Requirements: Creative and Cultural Representations (1)

REN338H1 - Renaissance in the City

Previous Course Number: VIC338H1

Hours: 24S

An interdisciplinary course exploring the history, art, architecture, literature, and music of the Renaissance in one or more cities from ca. 1400-1650. The course will investigate how local political and social-historical contexts shape ideas and cultural forms, and so illustrate the process and effects of cross-fertilization in the Renaissance period.

Exclusion: VIC338H1

Recommended Preparation: REN240Y1, or another course in Renaissance Studies

Breadth Requirements: Society and its Institutions (3)

REN340H1 - Travel, Trade, and Difference in the Renaissance World

Hours: 24S

The Renaissance is when the world became truly global. In this course, we examine how the production of stories, knowledge, and ideas was affected by early globalization. In particular, we explore cross-cultural encounters and exchanges established between early modern Asia, Africa, the Americas, and Europe along networks of trade, imperialistic expansion, and oppression. We will pay particular attention to how early globalization was shaped by power structures and by the intersection of race, class, religion, and gender.

Recommended Preparation: REN240Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

REN341H1 - The Self and Society: Women, Men and Children

Previous Course Number: VIC341H1

Hours: 24S

A study of the changing conception of the human self in the Renaissance, and of its representation by major authors: Erasmus, Rabelais, Marguerite de Navarre, Castiglione, Machiavelli and others.

Exclusion: VIC341H1

Breadth Requirements: Thought, Belief and Behaviour (2)

REN342H1 - Women and Writing in the Renaissance

Previous Course Number: VIC342H1

Hours: 24S

Focusing on writers from various geographical areas, the course examines a variety of texts by early modern women (for example, treatises, letters, and poetry) so as to explore the female experience in a literate society, with particular attention to how women constructed a gendered identity for themselves against the backdrop of the cultural debates of the time.

Exclusion: VIC342H1

Breadth Requirements: Creative and Cultural Representations (1)

REN343Y0 - Sex and Gender

Previous Course Number: VIC343Y0

An interdisciplinary approach to questions of gender and sexuality in early modern Europe, with special focus on the representations of the sexual drive, the gender roles of men and women, and varieties of sexual experience in the literature and art of the period. (*Offered as part of the Summer Abroad program*)

Exclusion: VIC343Y0

Breadth Requirements: Society and its Institutions (3), Thought, Belief and Behaviour (2)

REN343H1 - Sex and Gender

Previous Course Number: VIC343H1

Hours: 24S

An interdisciplinary approach to questions of gender and sexuality in early modern Europe, with special focus on the representations of the sexual drive, the gender roles of men and women, and varieties of sexual experience in the literature and art of the period.

Exclusion: VIC343H1, VIC343Y1

Breadth Requirements: Society and its Institutions (3)

REN344H1 - Renaissance Narrative

Previous Course Number: VIC344H1

Hours: 24S

Focuses on analysis of short stories and longer prose works including, in English translation: Boccaccio's stories

of love, fortune and human intelligence in the *Decameron*; Rabelais' humorous parody of high culture in *Gargantua*; the tragic tale of *Romeo and Juliet*; and the adventures of picaresque rogues in *Lazarillo de Tormes* and Nashe's *Unfortunate Traveler*.

Exclusion: VIC344H1

Breadth Requirements: Creative and Cultural Representations (1)

REN345H1 - Media and Communications in the Early Modern Era

Previous Course Number: VIC345H1

Hours: 24S

This course examines the various media (printing press, representational art, music, preaching) and social and political forces (family and political networks, censorship, education, etc.) that conditioned the communication of ideas in early modern society.

Exclusion: VIC345H1

Breadth Requirements: Creative and Cultural Representations (1)

REN346H1 - The Idea of the Renaissance

Previous Course Number: VIC346H1

Hours: 24S

This course examines the changing views of the Renaissance, from the earliest definitions by poets and painters to the different understandings of contemporary historians. We will pay attention to the interests and biases that have informed the idea of the Renaissance as an aesthetic, social, political, gendered, and Eurocentric phenomenon.

Prerequisite: Completion of 4.0 credits

Exclusion: VIC346H1

Recommended Preparation: At least 0.5 credit in the art, literature, history, or philosophy of fifteenth or sixteenth century Europe

Breadth Requirements: Creative and Cultural Representations (1)

REN347H1 - Studies in Renaissance Performance

Previous Course Number: VIC347H1

Hours: 24L

Studies in the development of new forms in music, drama and dance in the Renaissance. The course will consist of seminars and lectures, and may incorporate live performances taking place in Toronto in addition to recordings.

Exclusion: VIC347H1

Recommended Preparation: REN240Y1, or another course in Renaissance Studies.

Breadth Requirements: Creative and Cultural Representations (1)

REN348Y0 - The Renaissance City

Previous Course Number: VIC348Y0

This course will study four Renaissance Italian urban environments, beginning with the medieval city of Siena followed by the construction of Renaissance urban space in republics, principalities, and papal Rome. Field trips and illustrated lectures will introduce students to Renaissance urban, cultural, and political history. (Offered in Siena only)

Exclusion: VIC348Y0

Recommended Preparation: REN240Y1, or another course in Renaissance Studies.

Breadth Requirements: Creative and Cultural Representations (1), Society and its Institutions (3)

REN349Y1 - Special Topics in the Renaissance

Previous Course Number: VIC349Y1

Hours: 48L/24P

Studies in an aspect of the Renaissance based around lectures, seminars, and readings. Content varies by instructor and topics are listed on the Victoria College programs website: <https://vic.utoronto.ca/academic-programs/special-topics-courses/ren349y>. Not offered every year.

Recommended Preparation: REN240Y1, or another course in Renaissance Studies.

REN349H1 - Special Topics in the Renaissance

Previous Course Number: VIC349H1

Hours: 24L/12P

Studies in an aspect of the Renaissance based around lectures, seminars, and readings. Content varies by instructor and topics are listed on the Victoria College

programs website: <https://vic.utoronto.ca/academic-programs/special-topics-courses/ren349h>. Not offered every year.

Recommended Preparation: REN240Y1, or another course in Renaissance Studies.

REN392Y1 - Renaissance Studies Independent Study

Previous Course Number: VIC392Y1

This course provides an opportunity to design an interdisciplinary course of study, not otherwise available within the Faculty, with the intent of addressing specific topics in Renaissance studies. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits and permission of the Program Coordinator.

Exclusion: VIC392Y1

REN392H1 - Renaissance Studies Independent Study

Previous Course Number: VIC392H1

This course provides an opportunity to design an interdisciplinary course of study, not otherwise available within the Faculty, with the intent of addressing specific topics in Renaissance studies. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits and permission of Program Coordinator.

Exclusion: VIC392H1

REN440Y0 - Florence and the Renaissance

Previous Course Number: VIC440Y0

An interdisciplinary seminar on Florence in the 15th and 16th centuries: humanism, culture and society in the republican period, the rise of the Medici, Florentine Neoplatonism, the establishment of the Medici principate,

culture, society and religion. (*Offered as part of the Summer Abroad program*)

Prerequisite: REN240Y1 or permission of the instructor

Exclusion: VIC440Y0

Breadth Requirements: Creative and Cultural Representations (1)

REN440H1 - Florence and the Renaissance

Previous Course Number: VIC440H1

Hours: 24L

An interdisciplinary seminar on Florence in the 15th and 16th centuries: humanism, culture and society in the republican period, the rise of the Medici, Florentine Neoplatonism, the establishment of the Medici principate, culture, society and religion.

Prerequisite: REN240Y1 or permission of the instructor

Exclusion: VIC440H1, VIC440Y1

Breadth Requirements: Creative and Cultural Representations (1)

REN442H1 - The Renaissance Book

Previous Course Number: VIC442H1

Hours: 24L

This course explores the intellectual and historical contexts of the Renaissance book and applies a digital humanities approach to its study, focusing on books printed in Western Europe between 1500 and 1700. Through a close examination of early and rare books, students explore three major areas in Renaissance intellectual history: 1) humanist rhetoric, politics, and literature, 2) Reformation studies, and 3) natural history, science, and medicine. Regular guest lectures sponsored by the Centre for Reformation and Renaissance Studies will introduce students to scholars from beyond the UofT; the course also involves experiential learning with digital exhibitions and rare books.

Prerequisite: Completion of 9.0 credits

Exclusion: VIC442H1; VIC449H1 (Advanced Seminar in the Renaissance: Exhibiting the Renaissance Book), offered in Winter 2018 and Winter 2019

Recommended Preparation: REN240Y1, or another course in Renaissance Studies

Breadth Requirements: Society and its Institutions (3)

REN449H1 - Advanced Seminar in the Renaissance

Previous Course Number: VIC449H1

Hours: 12P/24S

An in-depth study in an aspect of the Renaissance based around lectures, seminars, and readings. Content in any given year depends on the instructor.

Prerequisite: Completion of 9.0 credits

Recommended Preparation: REN240Y1, or another course in Renaissance Studies.

REN449Y1 - Advanced Seminar in the Renaissance

Previous Course Number: VIC449Y1

Hours: 24P/48S

An in-depth study in an aspect of the Renaissance based around lectures, seminars, and readings. Content in any given year depends on the instructor.

Prerequisite: Completion of 9.0 credits

Recommended Preparation: REN240Y1, or another course in Renaissance Studies.

REN492Y1 - Renaissance Studies Independent Study

Previous Course Number: VIC492Y1

This course provides an opportunity to design an interdisciplinary course of study, not otherwise available within the Faculty, with the intent of addressing specific topics in Renaissance studies. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits and permission of the Program Coordinator.

Exclusion: VIC492Y1

REN492H1 - Renaissance Studies Independent Study

Previous Course Number: VIC492H1

This course provides an opportunity to design an interdisciplinary course of study, not otherwise available within the Faculty, with the intent of addressing specific topics in Renaissance studies. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits and permission of the Program Coordinator.

Exclusion: VIC492H1

Science, Technology, and Society

VIC206H1 - Psychology and Society

Hours: 24S

This course explores central developments and ongoing controversies in the scientific study of the human mind, brain and behaviour. It examines topics such as: psychoanalysis, behaviourism, humanistic psychology, evolutionary psychology, intelligence testing, and feminist perspectives. Goals include understanding the historical evolution and social relevance of scientific psychology.

Exclusion: VIC106H1

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC207H1 - Genetic Technologies: Scientific Promises and Ethical Dilemmas

Hours: 24L/12T

This course examines the ethical dilemmas raised by new genetic technologies. It explores the scientific possibilities they open as well as the moral questions they raise. The topics covered might include: Eugenics, the human genome project, behavioral genetics, genetics and race, genetic screening, gene editing and therapy, gene doping in sports, animal and human cloning, and genetic enhancement.

Breadth Requirements: Society and its Institutions (3)

REN242H1 - Scientific Worldviews of the Renaissance

Previous Course Number: VIC242H1

Hours: 24L

An in-depth study of late medieval and early modern scientific worldviews, with a focus on interconnections between natural philosophy, cosmology, theology, astronomy, optics, medicine, natural history, and ethics. Through a consideration of early modern ideas including free will and determinism, the finite and infinite universe, teleology and mechanism, theism and deism, and deduction and intuition, this course investigates some of the period's key metaphysical and methodological assumptions, and reveals how an evolving scientific understanding informed the Renaissance worldview.

Exclusion: VIC242H1, HPS309H1

Recommended Preparation: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

VIC245H1 - Science Wars: Society and the Limits of Scientific Knowledge

Hours: 24L

An introduction to competing conceptions of scientific knowledge and the role of sociocultural factors in shaping scientific methods, theories, and evidence. Can science provide objective knowledge of the external mind-independent world, or are the empirical aspirations of science limited by the social, cultural, economic, political, and religious contexts that shape "science" itself? Can scientific knowledge reach certainty? How do sociocultural factors affect the process of theory acceptance? This course considers "science" as an epistemological battleground from 17th century debates on inductive reasoning to contemporary arguments about "alternative" science.

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC246H1 - Animal, Vegetable, Mineral, Monster

Hours: 24L

This course introduces students to the history of natural history--or how thinkers (often called "naturalists") made sense of the world around them. Course readings, lectures, and activities will explore changing perspectives on nonhuman nature across time, from medieval bestiaries to early modern cabinets of curiosities, from

colonial botany to more recent legends of Yetis, Bigfoots, and other fantastical creatures of cryptozoology.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC248H1 - Genetics in the Movies: Mad Scientists, Clones, Superhumans, and Designer Babies

Hours: 24L/12T

This course explores how scientific and technological advances in genetics have been presented in the movies, focusing on American cinema. We will consider how selected films have influenced social perceptions of the role of scientists and genetic technologies in various areas. The movies and topics covered might include: *The Black Stork* (1917), *A Bill of Divorcement* (1932), *Tomorrow's Children* (1934) for eugenics; *The Boys from Brazil* (1978), and *Blueprint* (2003) for human cloning; *Jurassic Park* (1993) for de-extinction or bringing extinct animal species back to life; *Blade Runner* (1982) for synthetic biology and human nature; *Gattaca* (1997) for human genetic enhancement; *The Fly* (1958) and *The Island of Dr. Moreau* (1996) for chimeras; *My Sister's Keeper* (2009) for savior siblings; and *Okja* (2017) for genetically modified animals. We will also analyze the role of documentaries, such as *Human Nature* (2019) and *Make People Better* (2022).

Breadth Requirements: Society and its Institutions (3)

VIC274H1 - Wisdom of the Social Sciences

Hours: 24S

This course examines influential efforts to study human beings and society scientifically, from the seventeenth century to the present. We consider major contributions from prominent thinkers, such as Thomas Hobbes, Adam Smith, Karl Marx, and Sigmund Freud. We also review the contemporary relevance and persistent controversies about their ideas.

Breadth Requirements: Thought, Belief and Behaviour (2)

VIC301H1 - Public Communication in Science

Hours: 24S

How can scientific findings be efficiently communicated to broader audiences? This course will focus on the methodologies of effective science communication by analyzing the range of available tools, principles, formats, and media. It will introduce students to various techniques of communicating scientific findings to non-specialist audiences by means of social media posts, videos, podcasts, comics, interviews, news briefs, and public speaking. Students will analyze the public's perception of science and will discuss ways to address the concerns of science skeptics. Students will have the opportunity to create various forms of science communications material.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

VIC302H1 - Science Policy

Hours: 24S

The course focuses on the impact of policy on science and the development and implementation of science-related policy. Topics include science funding and allocation of resources, policies concerning the technological application of scientific discoveries, commercialization of science, and the factors that shape the choice of science-based policies in such areas as healthcare, urban planning, weapons development, or environmental monitoring. The course will consider various science policy frameworks that define the power relationships between the stakeholders: government science policymakers, research and educational institutions, private firms, social media, and NGOs.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Society and its Institutions (3)

VIC377H1 - Special Topics in Science, Technology and Society

Hours: 24S

In-depth study of a topic related to science and society. Content varies with instructor. Please see the Victoria College website for more information:
<https://vic.utoronto.ca/academic-programs/special-topics-courses/vic377h>

Prerequisite: Completion of 9.0 credits

Recommended Preparation: 0.5 credit in Science and Society

Breadth Requirements: Thought, Belief and Behaviour (2)

Vic Capstone

VIC435H1 - Capstone Seminar: Community-Engaged Research

Hours: 12L/78P

This course provides students with an experiential learning opportunity in community-engaged research combined with critical reflection and academic discussion within a seminar setting. Through a placement in social enterprise organizations, students develop research-based approaches to support their organization in assessing needs, impact, and resources. Alongside this hands-on experience, interdisciplinary seminar discussions will help students understand how research methodologies, standards, and protocols are deployed in community settings. Not eligible for CR/NCR option.

Prerequisite: Completion of 15.0 credits. Application required.

Exclusion: [NEW497Y1](#)/ [NEW498H1](#)

Breadth Requirements: Society and its Institutions (3)

VIC451H1 - Capstone: Learning Communities and Higher Education

Hours: 24S

This course examines higher education in Canada using Victoria University and Victoria's affiliates as a case study. Topics covered include learning communities, mentoring, experiential learning, and international contexts of education. Students gain practical mentorship experience through placement in first-year Victoria College courses. Not eligible for CR/NCR option.

Prerequisite: A minimum CGPA of 3.0, completion of 15.0 credits, and an application are required

Breadth Requirements: Society and its Institutions (3)

VIC452H1 - Science, Technology, & Society Internship

Hours: 24S

This seminar provides academic support for individual work placements in science and technology policy, governance, funding, popularization, advocacy, journalism, or a closely related field in a professional setting, through interdisciplinary readings, integrative discussion, and critical reflection on the culture of labour and the acquisition of workplace skills and experience. Assignments will include reflective exercises and critical analyses, leading to participation in a capstone seminar.

Not eligible for CR/NCR option. For internship projects and the link to the application form, visit <https://uoft.me/stshpsinternship>.

Prerequisite: Completion of 9.0 credits and an application are required

Recommended Preparation: [VIC301H1](#), [VIC302H1](#)

Breadth Requirements: Society and its Institutions (3)

VIC476H1 - Capstone Seminar in Foreign Policy

The seminar involves a critical assessment of current foreign policy issues and contemporary world problems. Issues and case studies to be analyzed include: 1. International military interventions to respond to imminent threats or humanitarian crises, issues of legitimacy and effectiveness. e.g., Iraq, Afghanistan, Kosovo, Haiti. 2. Canada-US relations in international crisis management, the track record and the way ahead. 3. Globalization, international terrorism, and their effects on sovereignty, diplomacy and international institutions.

Prerequisite: Completion of 15.0 credits and [VIC181H1](#), or permission of the instructor. Application required.

Exclusion: [POL470Y1](#)

Breadth Requirements: Society and its Institutions (3)

VIC493H1 - Vic Capstone Research Colloquium

Hours: 24S

This seminar provides work-in-progress support for students pursuing full-year or half-year Individual Studies projects. In an interdisciplinary seminar, students receive training and practice in project design, professional skills, and effective communication in a variety of fields and contexts. Not eligible for CR/NCR option.

Prerequisite: A minimum CGPA of 3.0, completion of 15.0 credits, and an application are required

Corequisite: Registration in an Independent / Individual Studies or Senior Essay course

Exclusion: [POL499Y1](#), [RLG404H1](#)/ [RLG405H1](#), [UNI460H1](#), thesis seminars in other programs

Other Vic Seminars

VIC259Y1 - Special Topics Seminar

Hours: 48S

Topics vary from year to year depending on the instructor. Please refer to the Victoria College website for more information: <https://vic.utoronto.ca/academic-programs/special-topics-courses/vic259y>

Prerequisite: Completion of 5.0 credits

VIC259H1 - Special Topics Seminar

Hours: 24S

Topics vary from year to year depending on the instructor. Please see the Victoria College website for specific details about this year's offerings:

<https://vic.utoronto.ca/academic-programs/special-topics-courses/vic259h>

Prerequisite: Completion of 5.0 credits

VIC296Y1 - Internship Opportunity

A practical or experiential learning opportunity under the supervision of a faculty member.

Prerequisite: Completion of 5.0 credits

VIC296H1 - Internship Opportunity

A practical or experiential learning opportunity under the supervision of a faculty member.

Prerequisite: Completion of 5.0 credits

VIC299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at

<https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

VIC359H1 - Special Topics Seminar

Hours: 24S

An upper level course. Topics vary from year to year depending on the instructor. Please refer to the Victoria College website for more information:

<https://vic.utoronto.ca/academic-programs/special-topics-courses/vic359h>

Prerequisite: Completion of 10.0 credits

VIC359Y1 - Special Topics Seminar

Hours: 48S

An upper level course. Topics vary from year to year depending on the instructor.

Prerequisite: Completion of 10.0 credits

VIC390Y1 - Victoria College Independent Studies

These courses provide an opportunity to design an interdisciplinary course of study not otherwise available within the Faculty. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: A minimum CGPA of 3.0, completion of 10.0 credits, and permission of the College Program Director

VIC390Y0 - Victoria College Independent Studies

These courses provide an opportunity to design an interdisciplinary course of study not otherwise available within the Faculty. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: A minimum CGPA of 3.0 and have completed 10.0 credits and permission of College Program Director.

VIC390H1 - Victoria College Independent Studies

These courses provide an opportunity to design an interdisciplinary course of study not otherwise available within the Faculty. Written application (detailed proposal, reading list and a letter of support from a Victoria College

faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: A minimum CGPA of 3.0, completion of 10.0 credits and permission of the College Program Director

VIC391Y1 - Victoria College Independent Studies

These courses provide an opportunity to design an interdisciplinary course of study not otherwise available within the Faculty. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: A minimum CGPA of 3.0, completion of 10.0 credits, and permission of the College Program Director

VIC391H1 - Victoria College Independent Studies

These courses provide an opportunity to design an interdisciplinary course of study not otherwise available within the Faculty. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: A minimum CGPA of 3.0, completion of 10.0 credits, and permission of the College Program Director

VIC391H0 - Victoria College Independent Studies

These courses provide an opportunity to design an interdisciplinary course of study not otherwise available within the Faculty. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: A minimum CGPA of 3.0 and have completed 10.0 credits and permission of College Program Director.

VIC396H0 - International Internship Opportunity

Hours: 4L/75P

This course provides an opportunity to apply acquired knowledge in a practical or experiential placement in an international setting. A faculty supervisor assesses and assigns the necessary written component associated with the internship. The number of weekly hours spent in the placement, the scope of learning objectives, and the nature of reflective and written activities are determined in consultation with the host institution and the supervisor. This is a pass/fail course.

Prerequisite: 4.0 credits

Course Experience: Partnership-Based Experience

VIC397H0 - International Study

Course content, travel destination, etc., will depend on the instructor. Topics will vary from year to year. Course not offered every year. Not eligible for CR/NCR option.

Prerequisite: Completion of 9.0 credits

VIC399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

VIC459Y1 - Special Topics Seminar

Hours: 48S

Topics vary from year to year. Please see the Victoria College website for more information: <https://vic.utoronto.ca/academic-programs/special-topics-courses/vic459y>

Prerequisite: Completion of 15.0 credits

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

VIC459H1 - Special Topics Seminar

Hours: 24S

Topics vary from year to year.

Prerequisite: Completion of 15.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

VIC490Y1 - Victoria College Independent Studies

These courses provide an opportunity to design an interdisciplinary course of study not otherwise available within the Faculty. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: A minimum CGPA of 3.0, completion of 15.0 credits, and permission of the College Program Director

VIC490Y0 - Victoria College Independent Studies

These courses provide an opportunity to design an interdisciplinary course of study not otherwise available within the Faculty. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: A minimum CGPA of 3.0 and have completed 15.0 credits and permission of College Program Director.

VIC490H1 - Victoria College Independent Studies

These courses provide an opportunity to design an interdisciplinary course of study not otherwise available within the Faculty. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: A minimum CGPA of 3.0, completion of 15.0 credits, and permission of the College Program Director

VIC491H1 - Victoria College Independent Studies

These courses provide an opportunity to design an interdisciplinary course of study not otherwise available within the Faculty. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: A minimum CGPA of 3.0, completion of 15.0 credits, and permission of the College Program Director

VIC491Y1 - Victoria College Independent Studies

These courses provide an opportunity to design an interdisciplinary course of study not otherwise available within the Faculty. Written application (detailed proposal, reading list and a letter of support from a Victoria College faculty member who is prepared to supervise) must be submitted for approval on behalf of Victoria College. For application procedures visit the Victoria College website. Not eligible for CR/NCR option.

Prerequisite: A minimum CGPA of 3.0, completion of 15.0 credits, and permission of the College Program Director

Women and Gender Studies

Faculty List

Professors Emeritae

M.J. Alexander, BSW, MA, PhD
K. Armatage, BA, MA, PhD
K.P. Morgan, BA, MA, MEd, PhD

Associate Professor Emerita, Teaching Stream

J. Larkin, BA, MEd, PhD

Professors

B. McElhinny, BA, PhD
M. Murphy, BA, PhD
K. Rittich, Mus Bac, LLM, SJD
A. Trotz, BA, MPhil, PhD (Director)
R. Walcott, BA, MA, PhD
L. Yoneyama, BA, MA, PhD

Associate Professors

R. Diaz, BA, MPhil, PhD
J. Ellapen, BA, MA, MA, PhD (UTM)
D. Georgis, BA, MA, PhD (Graduate Coordinator)
W.C. Johnson, AB, MA, MFA, PhD
M. Lo, BA, MA, MSc, PhD
C. Lord, BA, MA, PhD (UTM)
K. Recollet, BA, MA, PhD
S. Sweeney, BA, MA, PhD
V. Tahmasebi-Birgani, BA, MA, PhD (UTM)
J. Taylor, BA, MA, PhD

Assistant Professors

K. Bos, BA, MSt (UTM)
N. Charles, BA, MA, PhD (UTM)
S. Ye, BA, MA, PhD (UTSC)

Assistant Professors, Teaching Stream

W. Hasan, BA, MA, PhD
S. Trimble, BA, MA, PhD (Undergraduate Coordinator)

Introduction

For five decades, we have trained students to think deeply about how gender and sexuality operate at individual, interpersonal, institutional and global levels. We are an interdisciplinary program with faculty expertise across a range of fields, including history and literature, sociology and law, cultural studies and queer theory, and African, Caribbean, Middle Eastern, East Asian, and Equity studies. We enable students to answer urgent and complex questions, such as how militarization can

constrict men's aspirations for their lives, why pay gaps exist, how sexual expression is scripted and can be re-scripted, and even what Lizzo might have in common with Shakespeare. In addition to training students to analyze a music video, a novel, and a government report with equal care and skill, we also focus attention on matters of scale: when to aggregate and when to parse significant distinctions; how to think comparatively across space and time.

The Women & Gender Studies Institute (WGSi) at the University of Toronto is distinctive for its transnational approach. We critically address how national borders and nationalist discourses frame constructions of gender, race, class, indigeneity, sexuality, ability, and other important differences. We study the effects of migration, diaspora, and displacement on experiences of home and heritage, family, desire, and selfhood. We provide students the conceptual tools to connect processes of imperialism and globalization with emergent economies and forms of labour and consumption. Finally, we encourage students to reflect on the varied histories of feminism when framing their own activism in the present.

Our graduates go on to do innovative work in the public service, creative, and corporate sectors, and some enter the academy. They become everything from documentary filmmakers to grassroots activists to policy analysts in economic development agencies and professors in leading universities. All of them draw on the critical lenses they develop in this program, becoming part of a rich community of graduates who maintain their connections with one another, and who come back to the diverse classrooms where they once were students to share their experiences.

Undergraduate Coordinator: Professor S. Trimble, Room 2013, Wilson Hall, New College

wgsi.ugradcoordinator@utoronto.ca

Undergraduate Administrator: Stefanie Steele, Room 2035, Wilson Hall, New College - Phone: +1 416-978-3668, email: wgsi.programs@utoronto.ca

Website: <https://wgsi.utoronto.ca/>

Women and Gender Studies Programs

Women and Gender Studies Specialist Program (Arts Program) - ASSPE0571

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(10.0 credits, including 5.0 credits at the 300+ level, including at least 2.0 WGS credits at the 400 level, one of which must be WGS460Y1)

1. WGS160Y1 (normally taken in first year)
2. WGS260H1
3. WGS360H1
4. WGS460Y1 and 1.0 credit at the 400-level
5. 4.0 credits from the core group below
6. 2.0 credits from Group A or B

Core Group

WGS160Y1, WGS260H1, WGS271Y1, WGS273H1,
WGS275H1, WGS280H1, WGS331H1, WGS332H1,
WGS333H1, WGS334H1, WGS335H1, WGS336H1,
WGS340H1, WGS350H1 (no longer offered) ,
WGS355H1, WGS360H1, WGS362H1, WGS363H1,
WGS365H1, WGS367H1, WGS369H1, WGS370H1,
WGS372H1, WGS373H1, WGS374H1, WGS376H1,
WGS380H1, WGS385H1, WGS386H1, WGS390H1,
WGS395H1, WGS396H1, WGS397H1, WGS420H1,
WGS426H1, WGS434H1, WGS435H1, WGS440H1,
WGS442H1, WGS450H1, WGS451H1, WGS451Y1,
WGS460Y1, WGS461Y1, WGS462H1, WGS463H1,
WGS465H1, WGS470Y1, WGS480H1, WGS481H1,
WGS482H1

Group A

AFR454H1, ANT343H1, ANT456H1, ANT460H1,
CAR325H1, CDN335H1, CLA219H1, CLA319H1,
ENG273Y1, ENG355Y1, FRE304H1, GGR320H1,
GGR327H1, HIS198H1, HIS202H1, HIS205H1,
HIS297Y1, HIS306H1, HIS348H1, HIS354H1, HIS363H1,
HIS383Y1, HIS406H1, HIS446H1, HIS448H1, HIS481H1,
ITA455H1, JAL355H1, JPS315H1, NMC284H1,
NMC484H1, PHL243H1, PHL367H1, POL344H1,
POL432H1, POL450H1, PSY323H1, REN342H1,
REN343H1, RLG235H1, RLG311H1, RLG312H1,
RLG313H1, RLG315H1, RLG416H1, SLA248H1,
SOC214H1, SOC265H1, SOC314H1, SOC365H1,
SOC366H1, SOC367H1, SOC383H1, SOC465H1,
SPA382H1

Group B

AFR351Y1, ANT329H1, ANT477H1, BPM214H1,
CIN332Y1, CIN372Y1, CIN432H1, CSE240H1,
CSE241Y1, CSE341H1, CSE344Y1, CSE345H1,
CSE449H1, EAS314H1, ENG270H1, ENG323H1,
ENG370Y1, FCS390H1, GER250H1, GGR328H1,
GGR363H1, GGR457H1, HIS459H1, HIS474H1,
HST211H1, HST310H1, HST330H1, JHA394H1,
JPR364Y1, NEW302Y1, NMC365H1, NMC379H1,
NMC384H1, PHL268H1, PHL281H1, PHL373H1,
PHL380H1, PHL384H1, POL338H1, POL480H1,
REN341H1, SDS255H1, SDS256H1, SDS345H1,

SDS346H1, SDS354H1, SDS355H1, SDS365H1,
SDS377H1, SDS379H1, SDS382H1, SDS475H1,
SDS477H1, SDS478H1, SOC207H1, SOC220H1,
SOC309H1

Note: Effective Fall 2021, courses associated with New College programs will have the new "AFR," "BPM," "CAR," and "CSE" designators based on the respective areas of study. In addition, courses associated with Victoria College's Renaissance Studies program will have the new "REN" designator.

Women and Gender Studies Major Program (Arts Program) - ASMAJ0571

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(7.0 credits, including 3.0 credits at the 300+ level including at least 0.5 WGS credits at the 400 level)

1. WGS160Y1 (normally taken in first year)
2. WGS260H1
3. WGS360H1
4. 3.0 credits from the core group below
5. 2.0 credits from group A or B

Core Group

WGS160Y1, WGS260H1, WGS271Y1, WGS273H1,
WGS275H1, WGS280H1, WGS331H1, WGS332H1,
WGS333H1, WGS334H1, WGS335H1, WGS336H1,
WGS340H1, WGS350H1 (no longer offered) ,
WGS355H1, WGS360H1, WGS362H1, WGS363H1,
WGS365H1, WGS367H1, WGS369H1, WGS370H1,
WGS372H1, WGS373H1, WGS374H1, WGS376H1,
WGS380H1, WGS385H1, WGS386H1, WGS390H1,
WGS395H1, WGS396H1, WGS397H1, WGS420H1,
WGS426H1, WGS434H1, WGS435H1, WGS440H1,
WGS442H1, WGS450H1, WGS451H1, WGS451Y1,
WGS460Y1, WGS461Y1, WGS462H1, WGS463H1,
WGS465H1, WGS470Y1, WGS480H1, WGS481H1,
WGS482H1

Group A

AFR454H1, ANT343H1, ANT456H1, ANT460H1,
CAR325H1, CDN335H1, CLA219H1, CLA319H1,
ENG273Y1, ENG355Y1, FRE304H1, GGR320H1,
GGR327H1, HIS198H1, HIS202H1, HIS205H1,
HIS297Y1, HIS306H1, HIS348H1, HIS354H1, HIS363H1,
HIS383Y1, HIS406H1, HIS446H1, HIS448H1, HIS481H1,

ITA455H1, JAL355H1, JPS315H1, NMC284H1,
NMC484H1, PHL243H1, PHL367H1, POL344H1,
POL432H1, POL450H1, PSY323H1, REN342H1,
REN343H1, RLG235H1, RLG311H1, RLG312H1,
RLG313H1, RLG315H1, RLG416H1, SLA248H1,
SOC214H1, SOC265H1, SOC314H1, SOC365H1,
SOC366H1, SOC367H1, SOC383H1, SOC465H1,
SPA382H1

Group B

AFR351Y1, ANT329H1, ANT477H1, BPM214H1,
CIN332Y1, CIN372Y1, CIN432H1, CSE240H1,
CSE241Y1, CSE341H1, CSE344Y1, CSE345H1,
CSE449H1, EAS314H1, ENG270H1, ENG323H1,
ENG370Y1, FCS390H1, GER250H1, GGR328H1,
GGR363H1, GGR457H1, HIS459H1, HIS474H1,
HST211H1, HST310H1, HST330H1, JHA394H1,
JPR364Y1, NEW302Y1, NMC365H1, NMC379H1,
NMC384H1, PHL268H1, PHL281H1, PHL373H1,
PHL380H1, PHL384H1, POL338H1, POL480H1,
REN341H1, SDS255H1, SDS256H1, SDS345H1,
SDS346H1, SDS354H1, SDS355H1, SDS365H1,
SDS377H1, SDS379H1, SDS382H1, SDS475H1,
SDS477H1, SDS478H1, SOC207H1, SOC220H1,
SOC309H1

Note: Effective Fall 2021, courses associated with New College programs will have the new "AFR," "BPM," "CAR," and "CSE" designators based on the respective areas of study. In addition, courses associated with Victoria College's Renaissance Studies program will have the new "REN" designator.

Women and Gender Studies Minor Program (Arts Program) - ASMIN0571

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

Women and Gender Studies Courses

WGS160Y1 - Introduction to Women and Gender Studies

Hours: 48L/24T

1. WGS160Y1 or WGS271Y1
2. An additional 3.0 credits from the Core Group or Group A. Of these, 1.0 credit must be a 300/400-level WGS course

Core Group

WGS160Y1, WGS260H1, WGS271Y1, WGS273H1,
WGS275H1, WGS280H1, WGS331H1, WGS332H1,
WGS333H1, WGS334H1, WGS335H1, WGS336H1,
WGS340H1, WGS350H1 (no longer offered),
WGS355H1, WGS360H1, WGS362H1, WGS363H1,
WGS365H1, WGS367H1, WGS369H1, WGS370H1,
WGS372H1, WGS373H1, WGS374H1, WGS376H1,
WGS380H1, WGS385H1, WGS386H1, WGS390H1,
WGS395H1, WGS396H1, WGS397H1, WGS420H1,
WGS426H1, WGS434H1, WGS435H1, WGS440H1,
WGS442H1, WGS450H1, WGS451H1, WGS460Y1,
WGS461Y1, WGS462H1, WGS463H1, WGS465H1,
WGS470Y1, WGS480H1, WGS481H1, WGS482H1

Group A

AFR454H1, ANT343H1, ANT456H1, ANT460H1,
CAR325H1, CDN335H1, CLA219H1, CLA319H1,
ENG273Y1, ENG355Y1, FRE304H1, GGR320H1,
GGR327H1, HIS198H1, HIS202H1, HIS205H1,
HIS297Y1, HIS306H1, HIS348H1, HIS354H1, HIS363H1,
HIS383Y1, HIS406H1, HIS446H1, HIS448H1, HIS481H1,
ITA455H1, JAL355H1, JPS315H1, NMC284H1,
NMC484H1, PHL243H1, PHL367H1, POL344H1,
POL432H1, POL450H1, PSY323H1, REN342H1,
REN343H1, RLG235H1, RLG311H1, RLG312H1,
RLG313H1, RLG315H1, RLG416H1, SLA248H1,
SOC214H1, SOC265H1, SOC314H1, SOC365H1,
SOC366H1, SOC367H1, SOC383H1, SOC465H1,
SPA382H1

Note: Effective Fall 2021, courses associated with New College's African Studies and Caribbean Studies programs will have the new "AFR" and "CAR" designators respectively. In addition, courses associated with Victoria College's Renaissance Studies program will have the new "REN" designator.

An integrated and historical approach to social relations of gender, race, class, sexuality and disability, particularly as they relate to women's lives and struggles across different locales, including Canada.

Breadth Requirements: Creative and Cultural Representations (1), Thought, Belief and Behaviour (2)

WGS260H1 - Texts, Theories, Histories

Previous Course Number: WGS262H1, WGS262Y1
Hours: 24L/12T

Examines modes of theories that shaped feminist thought and situates them historically and transnationally so as to emphasize the social conditions and conflicts in which ideas and politics arise, change and circulate.

Exclusion: WGS262H1/ WGS262Y1

Recommended Preparation: WGS160Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

WGS271Y1 - Gender in Popular Culture

Hours: 48L

A critical examination of institutions, representations and practices associated with contemporary popular culture, mass-produced, local and alternative.

Exclusion: WGS271H1

Breadth Requirements: Creative and Cultural Representations (1)

WGS273H1 - Gender & Environmental (In)Justice

Previous Course Number: WGS273Y1
Hours: 48L/24T

Using a transnational, feminist framework, this course examines material and conceptual interrelations between gendered human and non-human nature, ecological crises, political economies and environmental movements in a variety of geographical, historical and cultural contexts. Does environmental justice include social justice, or are they in conflict? What might environmental justice and activism involve?

Exclusion: WGS273Y1

Breadth Requirements: Society and its Institutions (3)

WGS275H1 - Men and Masculinities

Hours: 24L/12T

Examines how masculinities shape the lives of men, women, transgender people. Effects of construction, reproduction and impact of masculinities on institutions such as education, work, religion, sports, family, medicine, military and the media are explored. Provides critical

analysis of how masculinities shape individual lives, groups, organizations and social movements.

Recommended Preparation: WGS160Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

WGS280H1 - Special Topics in Women and Gender Studies

Hours: 24L

Subjects will vary from year to year.

Breadth Requirements: Thought, Belief and Behaviour (2)

WGS281H1 - Special Topics in Women and Gender Studies

Hours: 24L

Subjects vary from year to year.

Breadth Requirements: Thought, Belief and Behaviour (2)

WGS331H1 - Special Topic in Women and Gender Studies

Hours: 24L

An upper level seminar. Subjects of study vary from year to year.

Recommended Preparation: WGS160Y1

Breadth Requirements: Creative and Cultural Representations (1)

WGS332H1 - Special Topic in Women and Gender Studies

Hours: 24L

An upper level seminar. Subjects of study vary from year to year.

Recommended Preparation: WGS160Y1

Breadth Requirements: Creative and Cultural Representations (1)

WGS333H1 - Special Topic in Women and Gender Studies

Hours: 24L

An upper level seminar. Subjects of study vary from year to year.

Recommended Preparation: WGS160Y1

Breadth Requirements: Creative and Cultural Representations (1)

WGS334H1 - Special Topic in Women and Gender Studies

An upper level seminar. Subjects of study vary from year to year. Please consult the Women & Gender Studies Institute's website for more information.

Recommended Preparation: WGS160Y1

Breadth Requirements: Creative and Cultural Representations (1)

WGS335H1 - Special Topic in Women and Gender Studies

An upper level seminar. Subjects of study vary from year to year.

Recommended Preparation: WGS160Y1

WGS336H1 - Selected Topics in Cultural Studies

Hours: 24L

An upper level course. Topics vary from year to year. Please consult the Women & Gender Studies Institute's website for more information.

Recommended Preparation: WGS160Y1

Breadth Requirements: Creative and Cultural Representations (1)

WGS340H1 - Women and Revolution in the Middle East

Hours: 24L

This course examines the complex and conflictual relations between women and revolutionary struggles and

focuses on a number of theoretical and empirical issues relevant to the Middle East and North Africa context.

Exclusion: WGS335H1 Women and Revolution in the Middle East

Recommended Preparation: WGS160Y1

Breadth Requirements: Society and its Institutions (3)

WGS355H1 - Gendered Labour Around the World

Hours: 24L

This course will focus on masculinities and femininities in workplace settings, with an emphasis on service work around the world. We will discuss workers' lived experiences of gender regimes which are embedded within the dynamics of class, race and nation. The relationships between gender processes and workplace hierarchies will be explored.

Exclusion: WGS363H1 Gendered Labour Around the World

Recommended Preparation: WGS160Y1

Breadth Requirements: Society and its Institutions (3)

WGS360H1 - Making Knowledge in a World that Matters

Hours: 24L/12T

Teaches skills in feminist approaches to making knowledge. Introduces feminist practices for doing research and navigating the politics of production and exchange. Develops skills for conveying knowledge to the wider world, such as through research papers, reports, performance, new media, art.

Prerequisite: WGS160Y1

Breadth Requirements: Creative and Cultural Representations (1)

WGS362H1 - Selected Topics in Gender and History

Hours: 24S

An upper level seminar. Subjects of study vary from year to year.

Recommended Preparation: WGS160Y1

WGS363H1 - Selected Topics in Gender and Theory

Hours: 24S

An upper level seminar. Subjects of study vary from year to year.

Recommended Preparation: WGS160Y1

WGS365H1 - Gender Issues in the Law

Hours: 24L

Examines the operation of the law as it affects women, the construction and representation of women within the legal system, and the scope for feminist and intersectional analyses of law. Includes an analysis of specific legal issues such as sexuality and reproduction, equality, employment, violence and immigration.

Recommended Preparation: WGS160Y1

Breadth Requirements: Society and its Institutions (3)

WGS367H1 - The Politics of Gender and Health

Hours: 24L/12T

Examines diverse traditions and normative models of health (e.g. biomedicine, social constructionist, indigenous health) in conjunction with analyses of the origin, politics, and theoretical perspectives of contemporary Women's Health Movements. Topics may include fertility, sexuality, poverty, violence, labour, aging, (dis)ability, and health care provision.

Recommended Preparation: WGS160Y1

Breadth Requirements: Society and its Institutions (3)

WGS369H1 - Studies in Post-Colonialism

Previous Course Number: NEW369H1

Hours: 24L

Examines gendered representations of race, ethnicity, class, sexuality and disability in a variety of colonial, neo-colonial, and post-colonial contexts. Topics may include the emergence of racialist, feminist, liberatory and neoconservative discourses as inscribed in literary texts, historical documents, cultural artifacts and mass media.

Exclusion: NEW369H1

Recommended Preparation: WGS160Y1

Breadth Requirements: Creative and Cultural Representations (1)

WGS370H1 - Utopian Visions, Activist Realities

Hours: 24L

Drawing on diversely situated case-studies, this course focuses on the ideals that inform struggles for social justice, and the mechanisms activists have employed to produce the change. Foci include the gendered implications of movement participation, local and transnational coalition, alternative community formation, and encounters with the state and inter/supra/transnational organizations.

Recommended Preparation: WGS160Y1

Breadth Requirements: Society and its Institutions (3)

WGS372H1 - Women and Psychology/ Psychoanalysis

Hours: 24L

An interdisciplinary analysis of the relationship of women to a variety of psychological and psychoanalytical theories and practices. Topics may include women and the psychological establishment; women's mental health issues; feminist approaches to psychoanalysis.

Recommended Preparation: WGS160Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

WGS373H1 - Gender and Violence

Hours: 24L

An interdisciplinary study of gendered violence in both historical and contemporary contexts including topics such as textual and visual representations; legal and theoretical analyses; structural violence; war and militarization; sexual violence; and resistance and community mobilization.

Recommended Preparation: WGS160Y1; WGS350H1

Breadth Requirements: Society and its Institutions (3)

WGS374H1 - Feminist Studies in Sexuality

Hours: 24L

Sexual agency as understood and enacted by women in diverse cultural and historical contexts. An exploration of the ways in which women have theorized and experienced sexual expectations, practices and identities. This course will be offered every three years.

Recommended Preparation: WGS160Y1; WGS271Y1
Breadth Requirements: Thought, Belief and Behaviour (2)

WGS376H1 - Studies in Queer and Trans

Previous Course Number: WGS272H1, WGS272Y1
Hours: 24L

Takes up conversations in queer and trans studies as separate and entangled fields. It explores how queer and trans people have experienced and theorized gender and sexuality.

Exclusion: WGS272H1/ WGS272Y1
Recommended Preparation: WGS160Y1
Breadth Requirements: Creative and Cultural Representations (1)

WGS380H1 - Feminist Graphic Novels

Hours: 24L

Comics aren't new, and graphic novels aren't either, but feminists have built a rich array of stories about consciousness, resistance, and coming of age in this genre that warrant scholarly attention. In this case, we will read graphic novels for their subtleties, thinking about what picture and text make possible in the exploration of emotion, interconnection, and identity. Reading about resistance to marriage in *Aya of Yop City*, a child's view of revolution in *Persepolis*, parent child reckoning in *Fun Home*, and loneliness in *Skim* will advance students' understandings of the power of narrative and the pictorial displacement of innocence.

Recommended Preparation: WGS160Y1
Breadth Requirements: Creative and Cultural Representations (1)

WGS381H1 - Black Britain: Race, Gender and Entangled Diasporas

Hours: 24L

An exploration of Black British history and culture, with a particular focus on labour, overlapping migrations, and racial formations following World War II. Topics and themes may include Afro-Asian-Arab politics and transnational solidarities against empire; citizenship and (non)belonging; mobilizations against fascism and state violence; the Black Women's Movement and Black British Feminisms; the emergence and interventions of Cultural Studies; the Caribbean Artists Movement and Black British cultural productions more generally.

Recommended Preparation: WGS160Y1 and completion of at least 4.0 credits
Breadth Requirements: Thought, Belief and Behaviour (2)

WGS385H1 - Gender and Neoliberalism

Hours: 24L

Reviews major feminist transnational, Marxist and Foucauldian approaches to the study of neoliberalism. Adopts a comparative, historical and global approach to the ways that gender is implicated in state restructuring, changing roles for corporations and non-governmental organizations, changing norms for personhood, sovereignty and citizenship, and changing ideas about time/space.

Recommended Preparation: WGS160Y1
Breadth Requirements: Society and its Institutions (3)

WGS386H1 - Gender and Critical Political Economy

Hours: 24L

Offers a critical analysis of political economy, its historical and contemporary contentions and the ruptures that open the space for alternative theorizing beyond orthodox and heterodox thinking, by inserting gender and intersecting issues of power, authority and economic valorization across multiple and changing spheres: domestic, market and state.

Recommended Preparation: WGS160Y1; WGS273Y1
Breadth Requirements: Society and its Institutions (3)

WGS390H1 - Land-ing: Indigenous and Black Futurist Spaces

Hours: 24L

Students are invited to think through the relationships between Indigenous and Afro-futurist concepts of land. This class will engage Indigenous feminist and Black queer and feminist theories of land and space, linking them to Afrofuturist and Indigenous futurist thought. We explore various texts in relation to emergent methodologies, decolonial desires, and love and radical relationalities.

Prerequisite: Completion of 4.0 credits

Exclusion: WGS335H1 (Special Topic in Women and Gender Studies: Indigenous Feminist Theory), offered in Fall 2015, WGS335H1 (Special Topic in Women and Gender Studies: Decolonial Aesthetics and Futurities), offered in Winter 2018, Winter 2019 and Winter 2020

Recommended Preparation: WGS160Y1

Breadth Requirements: Creative and Cultural Representations (1)

WGS396H1 - Writing the Body

Hours: 24L

Examines the ways in which bodies are lived and inscribed and represented through a variety of genres. Students will work through issues of corporeality and materiality in the production and reception of texts and will practice embodied writing on a personal level through in-class workshops and written assignments.

Exclusion: WGS332H1: Writing the Body

Recommended Preparation: WGS160Y1

Breadth Requirements: Creative and Cultural Representations (1)

WGS397H1 - The Politics of Girlhood

Hours: 24L

The course communicates the growing field of "girl studies" and provides a critical exploration of the historical, social, psychological and political definitions attached to girlhood. We will move toward a feminist understanding of how definitions of girl-child shape individual experience, historical narratives, cultural representations, political agendas and futures.

Exclusion: WGS335H1: The Politics of Girlhood

Recommended Preparation: WGS160Y1

Breadth Requirements: Thought, Belief and Behaviour (2)

WGS420H1 - Asian/North American Feminist Issues

Hours: 24L

A transpacific examination of issues that have directly and indirectly shaped the feminist and other related critical inquiries in Asia and among the Asian diasporas in Canada and the United States.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

WGS426H1 - Gender and Globalization: Transnational Perspectives

Hours: 24L

Critically examines current interdisciplinary scholarship on globalization, its intersections with gender, power structures, and feminized economies. Related socio-spatial reconfigurations, 'glocal' convergences, and tensions are explored, with emphasis on feminist counter-narratives and theorizing of globalization, theoretical debates on the meanings and impacts of globalization, and possibilities of resistance, agency, and change.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

Exclusion: WGS463H1 (Advanced Topics in Gender Theory: Gender and Globalization: Transnational Perspectives), offered in Fall 2009

Breadth Requirements: Society and its Institutions (3)

WGS434H1 - Advanced Topics in Women and Gender Studies

Hours: 24S

An upper level seminar. Topics vary from year to year depending on instructor. Please consult the Women & Gender Studies Institute's website for more information.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

WGS435H1 - Advanced Topics in Women and Gender Studies

Hours: 24S

An upper level seminar. Topics vary from year to year depending on instructor.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

WGS440H1 - Decolonial Cyborgs for Planetary Futures

Hours: 24L

Drawing together film, fiction, and theory this course invites students to explore ways of imagining other worlds. From afro-futurism to planetary humanism, from cyborgs to hauntings, from science fiction fantasies to the politics of aliens, the course examines and produces feminist, postcolonial, anti-racist, and queer visions of other worlds.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

Breadth Requirements: Creative and Cultural Representations (1)

WGS442H1 - Toxic Worlds, Decolonial Futures

Hours: 24S

This course explores the ways environmental violence is an integral practice of settler colonialism that affects human and non-human life, disrupts Indigenous sovereignty, and enacts ongoing racism. A typical way of addressing environmental violence is to document the harm done to bodies and communities. This class asks, how might we also refuse environmental violence and enact better obligations to land/body relations? What kind of decolonial futures can be summoned in the aftermath of environmental violence? Our readings will bring Indigenous feminist approaches together with Black feminist, queer, and feminist environmental justice approaches. Participants will build upon the readings to create their own decolonial environmental justice future projects.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

Exclusion: WGS463H1 (Advanced Topics in Gender Theory: Toxic Worlds, Decolonial Futures), offered in Winter 2018, Winter 2019 and Winter 2020

Breadth Requirements: Thought, Belief and Behaviour (2)

WGS450H1 - Modernity, Freedom, Citizenship: Gender and the Black Diaspora

Hours: 24L

Explores transnational feminist genealogies of the black diaspora. The course pays attention to the contexts and movements that generated key questions, exploring how these interventions disclose preoccupations with modernity, freedom and citizenship. Topics may include trauma and memory, sexual citizenship, Afrofuturism, indigeneity, and the crafting of political communities.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

Exclusion: WGS434H1 (Advanced Topics in Women and Gender Studies: Black Diasporic Feminisms: Modernity, Freedom, Citizenship), offered in Fall 2012

Breadth Requirements: Thought, Belief and Behaviour (2)

WGS451H1 - Independent Study in Women and Gender Studies Issues

Under supervision, students pursue topics in Women and Gender Studies not currently part of the curriculum. For students in the Women and Gender Studies Specialist or Major. Not eligible for CR/NCR option.

Prerequisite: Completion of WGS160Y1, WGS260H1, and WGS360H1, a CGPA of at least 3.0 and permission of the Undergraduate Coordinator.

WGS451Y1 - Independent Study in Women and Gender Studies

Under faculty supervision, students pursue topics in Women and Gender Studies that are not currently part of the curriculum. For students in the Women and Gender Studies Specialist or Major. Not eligible for CR/NCR option.

Prerequisite: Completion of WGS160Y1, WGS260H1, and WGS360H1, a CGPA of at least 3.0 and permission of the Undergraduate Coordinator.

WGS460Y1 - Honours Seminar

Hours: 24S

Supervised undergraduate thesis project undertaken in the final year of study. Students attend a bi-weekly seminar to discuss research strategies, analytics,

methods and findings. A required course for Specialist students. Not eligible for CR/NCR option.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

WGS461Y1 - Advanced Topics in Women and Gender Studies

Hours: 48S

An upper level seminar. Topics vary from year to year depending on the instructor.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

WGS462H1 - Advanced Topics in Gender and History

Hours: 24S

An upper-level seminar. Topics vary from year to year depending on instructor.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

WGS463H1 - Advanced Topics in Gender Theory

Hours: 24S

Senior students may pursue more advanced study in feminist theory. Topics vary from year to year depending on instructor.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

WGS465H1 - Special Topics in Gender and the Law

Hours: 24S

Senior students may pursue advanced study in gender and law. Topics vary from year to year.

Prerequisite: 2.5 WGS credits including WGS160Y1, WGS365H1 and an additional 0.5 WGS credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

WGS470Y1 - Community Engagement

Hours: 48S

The application of theoretical study to practical community experience. Advanced Women and Gender Studies students have the opportunity to apply knowledge acquired in the Women and Gender Studies curriculum through a practicum placement within a community organization. Not eligible for CR/NCR option.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

Breadth Requirements: Society and its Institutions (3)

WGS480H1 - Challenging Coloniality: Caribbean Sexualities in Transnational Perspective

Previous Course Number: WGS435H1S

Hours: 24S

This course foregrounds the Caribbean as a transnational space, where sexuality, gender, race and class are intimately connected and shaped by colonial legacies and contemporary circuits of globalization.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

Exclusion: WGS435H1 (Topics: Challenging Coloniality: Caribbean Sexualities in Transnational Perspective), offered in Summer 2017

Breadth Requirements: Thought, Belief and Behaviour (2)

WGS481H1 - Gender, Sexuality and Black Liberation from Black Power to #BlackLivesMatter

Previous Course Number: WGS435H1

Hours: 24S

This course maps genealogies of black insurgency and transnational itineraries of intersectional theorizing, organizing, and praxis from the 20th century to our present moment. Through close study of works by and about black revolutionary migrants, exiles, intellectuals, fugitives, and so-called terrorists, participants will critique and create radical visions for emancipation. Major topics and themes may include black feminisms; queer insurgencies; transnational imaginaries and solidarities; silence and intracommunal violence; accountability and transformative justice. Through collective discussion,

writing, and reflection we interrogate visions and strategies of emancipation, and imagine radical futures historically and in our own times.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

Exclusion: WGS435H1 (Topics: Sex, Gender and Revolution from Black Power to #BlackLivesMatter), offered in Winter 2017 and Fall 2017

Breadth Requirements: Thought, Belief and Behaviour (2)

WGS482H1 - Translating Sexuality: Queer Migration, Queer Diasporas

Previous Course Number: WGS434H1

Hours: 24S

This course examines how notions of sexuality travel as people move within and beyond national borders. It

investigates how queer and trans migrants pursue different versions of belonging, solidarity, survival, and hope. Participants will study transnational archives (which may include popular culture, new media, film, literature, and performance) as they trace globalization's effects on racialized, queer, and trans communities. Major topics may include: queer of color critique; queer settler colonialism; transnational and global south sexualities; imperialism and militarism; neoliberalism and homonationalism; humanitarianism and sexual rights; queer and trans social movements; postcolonial intimacies.

Prerequisite: 2.5 WGS credits including WGS160Y1 and 1.0 WGS credit at the 300+ level

Exclusion: WGS434H1 (Topics: Trans/national Sexuality), offered in Fall 2016 and Fall 2017

Breadth Requirements: Creative and Cultural Representations (1)

Woodsworth College

Faculty List

Associate Professor Emeritus, Teaching Stream

W.B. MacDonald, BA, MA
T. Moritz, MA, PhD
J.B. Rose, MA, PhD
T.P. Socknat, MA, PhD

Associate Professors, Teaching Stream

A. Bolintineanu, MA, PhD
J. DeSilva, MA, PhD (CLTA)
B. Fischer, MA, PhD
J. Johnson, MA, PhD

Assistant Professors, Teaching Stream

P. Bohórquez, MA, PhD
H. Craig, MLitt, PhD (CLTA)
J. Ross, MA, PhD

Introduction

Woodsworth College is named in honour of James Shaver Woodsworth (1874-1942), minister, pacifist, social activist and Member of Parliament, who was strongly committed to broadening educational opportunities for all. The College remains faithful to its mission of promoting accessibility and equity, providing two access programs for students seeking admission to the Faculty of Arts and Science: the Millie Rotman Shime Academic Bridging Program and the Diploma to Degree Transfer Program. In addition, Woodsworth offers rewarding educational experiences through its distinctive College One programs, a selection of First-Year Foundation courses, and the Summer Abroad programs. The Minor program in Digital Humanities prepares students for future paths ranging from graduate studies in literature, history, library science, and other fields, to careers as technical writers, data analysts and visualizers, project managers, and programmers. Regardless of College affiliation, you are encouraged to explore the exceptional range of programs offered by [Woodsworth College](http://www.woodsworthcollege.ca).

Woodsworth College
119 St. George Street
Toronto ON M5S 1A9
www.wdw.utoronto.ca

Woodsworth College Programs

Listed in this order:

- Digital Humanities (Minor program)

- First-Year Foundation Options
 - First-Year Seminars
 - Woodsworth One
- Summer Abroad Programs
- Access Programs
 - Millie Rotman Shime Academic Bridging Program
 - Diploma to Degree

Digital Humanities (Minor program)

Digital humanities (DH) is a discipline at the intersections of the humanities with computing. DH studies human culture -- art, literature, history, geography, religion -- through computational tools and methodologies; and, in turn, DH studies the digital through humanist lenses. Digital humanists study social media phenomena or medieval manuscript archives; computationally analyze thousands of newspaper articles to trace economic developments; construct video games to study literary narratives; or resurrect historical cities through digital maps and virtual reality exhibits.

In introductory and advanced DH courses, students learn about the intellectual landscape of digital humanities scholarship. They learn how to build digital stories, exhibits, and maps; how to digitize rare books; how to analyze collections of data; how to construct digital models and 3D-print them; and how to manage major digital projects. By the end of the program, students conduct a major DH research project of their own or participate in the research of an established faculty project. Throughout the program, students gain a critical perspective on digital technologies, learning to consider the ways digital platforms shape, and are shaped by, the currents of wider social and cultural forces. By providing this critical and technical skillset, the Digital Humanities Minor prepares students for future paths that range from graduate studies in literature, history, library science, education, or computer science, to careers as technical writers, data analysts and visualizers, project managers, or programmers.

digital.humanities@utoronto.ca
www.utoronto.ca/digital-humanities

First-Year Foundation Options

Woodsworth College offers two kinds of First Year Foundation options: individual FYF H seminars on a variety of topics, and our College One, in two streams that consist of two H seminars each, for students interested in a deeper level of engagement in this part of their first-year experience. All our First Year Foundation seminars offer an intellectually challenging introduction to university-level studies and are designed to complement other first-year courses, thereby enhancing academic success in the first year and beyond. They promote the development of strong critical thinking, information literacy, oral and written communication skills, and awareness of both the

distinctive nature of particular academic disciplines and the practices and values common to all academic work.

FYF Seminars

Woodsworth's FYF seminars, all of which are stand-alone H courses, are designed to provide first-year students with the opportunity to work closely with an instructor and fellow students in a class of no more than 25, maximizing opportunities for class discussion and the development of essential academic skills. Each seminar focuses on specific disciplinary or interdisciplinary issues, questions or controversies of particular interest to the instructor, and introduces the students to the excitement of discovery inherent in academic research and scholarship at the University of Toronto. Wide-ranging readings and assignments encourage students to develop their ability to think critically and to express ideas and arguments clearly and coherently, both orally and in writing. Please check the [timetable](#) for Woodsworth College's [current offerings](#) of FYF seminars.

Woodsworth One

Woodsworth One has two interdisciplinary streams, both of which draw on a wide range of Social Sciences and Humanities perspectives. The Order and Disorder stream focuses on the role of laws, government policies, trade, war, and innovation in creating and disrupting both social and global order. The Popular Culture Today stream examines the products of the entertainment industry and the social behaviours associated with their consumption, exploring how popular culture works and what it means.

Students take two 0.5 credit seminars – one in each term – and participate in regular co-curricular activities that build students' sense of community within Woodsworth College and across the University of Toronto. Seminars are capped at 25 students to maximize opportunities for participation and to promote close contact with both the instructor and fellow students. The emphasis is on class discussion and problem-based learning. Students participate in role-playing games, simulations, debates and more. The co-curricular activities include field trips, film screenings, guest speakers, writing and research workshops, and test-taking seminars.

The Woodsworth One team is dedicated to supporting students' transition to university life, and to guiding their academic planning. In addition to the Program Coordinator, course instructors, and peer mentors, the team includes the College Writing Centre, the College Learning Strategist, a dedicated Registrar, and a program administrator. Each member of the team seeks to create a strong sense of community and to set students up for academic success.

Woodsworth One is geared towards first-year students enrolled in Social Sciences and Humanities within the Faculty of Arts and Sciences. In keeping with Woodsworth

College's tradition of open access, there is no incoming grade requirement. Students participating in any other One program are excluded from Woodsworth One. Please note that both streams may not be offered in a given year. For more information, please check the timetable for current course options.

one.wdw@utoronto.ca
wdw.utoronto.ca/woodsworthone

Summer Abroad Programs

Students can prepare themselves for a future in the global village by participating in a Summer Abroad program and complete a University of Toronto course overseas in three to six weeks. These programs are designed to enrich students' academic lives by providing an exciting and educational international experience. Learning is not limited to the classroom; students will observe and experience many of the things they study, including the language, history, culture, art, religion, business, and politics of the host country.

summer.abroad@utoronto.ca
<https://summerabroad.utoronto.ca/>

Millie Rotman Shime Academic Bridging Program

The Academic Bridging Program is designed for individuals who have been away from formal education for some time and do not meet the University's established requirements for direct entry admission. Both part-time and full-time options are available to students interested in studies in the Humanities and Social Sciences. Those seeking admission to the Sciences must take the program's full-time science option. Students who successfully complete the program with a grade of 63% or above are admitted to the Faculty of Arts and Science with one full credit towards their degree. Students who complete either of the program's full-time options may transfer up to 2.0 credits towards their degree.

416-978-4444
academic.bridging@utoronto.ca
wdw.utoronto.ca/academic-bridging

Diploma to Degree

The Diploma to Degree program is a pathway to university studies for students completing a two-year liberal arts diploma at one of our partner institutions, including George Brown College, Humber College and Seneca College. The Diploma to Degree Program is a facilitated transfer program into Woodsworth College in the Faculty of Arts and Science at the University of Toronto. The program is designed for students to transfer with up to 6 transfer credits and retained credits from courses completed at the University of Toronto.

To be eligible for transfer, students must:

- Complete the 2-year diploma with a minimum 3.0 GPA
- Receive a recommendation from their college
- Achieve a minimum grade of 60% in a qualifying course at the University of Toronto.

diplomatodegree@utoronto.ca
wdw.utoronto.ca/diploma-to-degree

Woodsworth College Programs

Digital Humanities Minor (Arts Program) - ASMIN1337

Digital humanities (DH) is a discipline at the intersections of the humanities with computing. DH studies human culture -- art, literature, history, geography, religion -- through computational tools and methodologies; and, in turn, DH studies the digital through humanist lenses. Digital humanists study social media phenomena or medieval manuscript archives; computationally analyze thousands of newspaper articles to trace economic developments; construct video games to study literary narratives; or resurrect historical cities through digital maps and virtual reality exhibits.

In introductory and advanced DH courses, students learn about the intellectual landscape of digital humanities scholarship. They learn how to build digital stories, exhibits, and maps; how to digitize rare books; how to analyze collections of data; how to construct digital models and 3D-print them; and how to manage major digital projects. By the end of the program, students conduct a major DH research project of their own or participate in the research of an established faculty project. Throughout the program, students gain a critical perspective on digital technologies, learning to consider the ways digital platforms shape, and are shaped by, the currents of wider social and cultural forces.

By providing this critical and technical skillset, the Digital Humanities Minor prepares students for future paths that range from graduate studies in literature, history, library science, education, or computer science, to careers as technical writers, data analysts and visualizers, project managers, or programmers.

Students should note that some courses at the 200, 300, and 400 levels may have additional prerequisites.

Permission to count courses that are not on the list below towards the Minor in Digital Humanities must be received

from the Program Coordinator, and will be granted on a case-by-case basis when the student's work demonstrably and substantially engages Digital Humanities-related content or research methods.

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits, including 1.0 credit at the 300/400-level)

Students should note that some courses at the 200, 300, and 400-levels may have additional prerequisites.

Permission to count courses towards the Minor in Digital Humanities that are not in the Completion Requirements must be received by the Program Coordinator, and will be granted on a case-by-case basis when the student's work demonstrably and substantially engages Digital Humanities-related content or research methods.

It is not possible to complete this program in one year.

1. Introductory courses: [DHU235H1](#) and [DHU236H1](#)

2. Maximum 2.5 credits from any of the following courses, which include DHU courses and cross-listed courses offered by other departments:

a. [DHU335H1](#)/ [DHU336H1](#)/ [DHU337H1](#)/ [DHU338H1](#)/ [DHU339H1](#)

b. Cross-Listed Courses:

Anthropology: [ANT437H1](#)

Book and Media Studies: [SMC228H1](#)/ [SMC229H1](#)/ [SMC255H1](#)/ [BMS392H1](#)

Cinema Studies: [CIN312Y1](#)

Drama, Theatre, and Performance Studies: [DRM244H1](#)/ [DRM424H1](#)

Computer Science: [CSC104H1](#)/ [CSC108H1](#)/ [CSC300H1](#)

English: [ENG287H1](#)

Geography: [GGR271H1](#)/ [GGR272H1](#)/ [GGR273H1](#)/ [GGR349H1](#)/ [GGR452H1](#)

History: [HIS393H1](#)/ [HIS455Y1](#)

History & Philosophy of Science & Technology: [HPS202H1](#)/ [HPS203H1](#)

Medieval Studies: [MST201H1](#)/ [MST202H1](#)/ [MST300H1](#)

Music: [MUS300H1](#)

Religion: [RLG233H1](#)/ [RLG307H1](#)/ [RLG308H1](#)

Urban Studies: [URB235H1](#)/ [URB236H1](#)/ [URB333H1](#)

Writing and Rhetoric: [WRR303H1](#)

3. A minimum of a 0.5 credit that provides a capstone experience, chosen from the list below:

a. [DHU435H1](#), [DHU436H1](#), [DHU437H1](#)

b. Other 400-level courses with a significant DH practicum element, such as [CDN435Y1](#) (Active Citizenship), can also be considered for fulfillment of the capstone requirement, if students receive written permission of the

Digital Humanities Program Coordinator within the first two weeks of enrollment in the course.

Note: Cross-listed courses are offered by other departments. Registration in these courses may be available only to students who have completed specified prerequisites and/or are enrolled in a program sponsored by the department offering the course. Course enrolment conditions are listed in the Arts and Science timetable. Course descriptions, prerequisites, corequisites and exclusions are listed in the Calendar.

Note:

- Effective Fall 2021, courses associated with Woodsworth College's Digital Humanities program will have the new "DHU" designator.
- Effective Fall 2021, active courses associated with St. Michael's College's Book and Media

Woodsworth College Courses

Woodsworth First-Year Foundations

WDW195H1 - From Page to Screen: Reading in the Digital Age

Hours: 24L/12T

This course explores the practice of reading at the juncture between printed page and digital screen through assembling a digital commonplace book, an annotated personal anthology that will document each student's intellectual path. Students will learn close reading strategies, multimodal annotation techniques, and various modes of digital engagement with texts. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

WDW196H1 - From Rayguns to Light Sabers: Science Fiction in Contemporary Culture

Previous Course Number: CCR199Y1

Hours: 24S

This course examines science fiction as pop culture genre, media industry, and sociocultural phenomenon, with attention to some of its key themes, its important texts, creators, and audiences, and its place in contemporary culture. We will study some works chosen

Studies program will have the new "BMS" designator. In addition, courses associated with Innis College's Urban Studies and Writing and Rhetoric programs will have the new "URB" and "WRR" designators respectively.

Regarding Woodsworth College Courses

Not all courses are offered every year. Please check the [timetable](#) for current course offerings and enrolment restrictions/conditions. Students without course prerequisites may be removed at any time they are discovered. Course descriptions, prerequisites, corequisites and exclusions are listed below.

by the class as well as by the instructor. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion: ANT195H1, VIC137H1

Breadth Requirements: Creative and Cultural Representations (1)

WDW197H1 - Jane Austen on Film

Hours: 24S

In the 21st century, Jane Austen's early 19th-century novels of love and marriage are increasingly experienced through retellings and updatings in theatrical and made-for-television movies. The course will examine highlights from the last 25 years of Austen adaptations for what they can tell us about relationships in our time, including how Austen's stories are rewritten to please a modern audience. Films in the course will include works from 1995 to 2016 (from 1995, *Clueless*, Austen's *Emma* retold as a Hollywood high school comedy and starring Alicia Silverstone; and *Sense and Sensibility*, for which Emma Thompson's screenplay won an Academy Award; and from 2016, the Hallmark Channel's *Unleashing Mr. Darcy*, Austen's *Pride and Prejudice* transferred to the present-day dog show circuit; and writer/director Whit Stillman's *Love and Friendship*, the first-ever film version of Austen's *Lady Susan*). Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

WDW198H1 - There and Back Again: Exploring Tolkien

Hours: 24S

Since the mid-twentieth century, J.R.R. Tolkien's *The Hobbit* and *The Lord of the Rings* have become classics of children's and fantasy literature. In this course, we read Tolkien's *The Lord of the Rings* and investigate the world-building and imagined history that lies behind the books. We trace how Tolkien's own life experience informed his work—his experience as a soldier of the Great War and a civilian during World War Two; as a scholar of medieval language and literature, and of fairy tales; as a Catholic thinker; and as a lover of nature and the past. We also survey the afterlife of the novels in fantasy, film, and the popular imagination. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

WDW199H1 - Indigenous Knowledge and Storytelling in Toronto

Hours: 12T/24S

The land now known as Toronto has a 13,000+ year old history of Indigenous presence that is still unfolding. This history is inscribed in the land – it is visible in the geographical features, place names, and contemporary urban form of the city and is represented through stories (oral and written) told by diverse members of Toronto's Indigenous community. This course engages with stories of Indigenous history and presence in Toronto through a selection of Indigenous literary works about Toronto, Indigenous guest speakers, and a series of experiential Indigenous storytelling tours of significant locations across the city. Students will be introduced to Indigenous worldviews and ways of knowing and will learn why storytelling remains a significant and culturally-appropriate means for keeping and sharing land-based Indigenous Knowledge. Students will gain a deeper appreciation of the city as a traditional Indigenous territory and will reflect on their own relationships and responsibilities within these lands. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Creative and Cultural Representations (1)

Woodsworth One

WDW151H1 - Order and Disorder I: Issues and Perspectives

Hours: 16T/24S

Societies require law and order, but at what point does order become oppression? How do we balance our need for freedom and society's need for order? This

interdisciplinary seminar allows students to explore these and related questions through selected readings introducing theories from sociology, political science, philosophy, and history. Restricted to first-year students. Not eligible for CR/NCR option.

Breadth Requirements: Society and its Institutions (3)

WDW152H1 - Order and Disorder II: Problems and Solutions

Hours: 16T/24S

This interdisciplinary seminar introduces students to some of the methods used by scholars and researchers in sociology, political science, philosophy, and history to develop, test, and debate possible solutions to the problems of social order and disorder. Topics will vary from year to year. Restricted to first-year students. Not eligible for CR/NCR option.

Exclusion:

Breadth Requirements: Society and its Institutions (3)

Digital Humanities

DHU235H1 - Introduction to Digital Humanities

Previous Course Number: WDW235H1

Hours: 24L/12P

Digital Humanities (DH) studies human culture -- art, literature, history, geography, religion -- using computational tools and methodologies, and at the same time studies digital technologies and communities through humanist lenses, as complex cultural objects shaped by wider social and political concerns and the ways we construct knowledge and meaning.

Prerequisite: 4.0 credits

Exclusion: WDW235H1

Breadth Requirements: Creative and Cultural Representations (1)

DHU236H1 - Virtual Worlds: Introduction to Spatial Digital Humanities

Previous Course Number: WDW236H1

Hours: 24L/12P

A Digital Humanities perspective on the virtual worlds in which we are increasingly immersed, from scholarly digital archives to video games. We study the theory and methods of geospatial humanities research and explore the technical and cultural implications of computer vision, augmented reality, the Internet of Things, and 3D printing.

Prerequisite: DHU235H1 or permission of the Program Coordinator

Exclusion: WDW236H1

Breadth Requirements: Creative and Cultural Representations (1)

DHU334H1 - Innovation Through a Digital Lens

Hours: 24L

After some preliminary study of the nature of innovation and the social, political, and economic implications of new ideas and technologies throughout human history, students will select a single innovation to work on as a case study over a series of term assignments, culminating in an online exhibit. Using both traditional research methods and digital tools student will examine the origins and evolution of their chosen innovation, as well as aspects of its impact. The assignments will also give students opportunities to reflect on the ways the digital lens has impacted both their research and their understanding.

Prerequisite: DHU235H1 and DHU236H1, or permission of the DH program coordinator

Breadth Requirements: Society and its Institutions (3)

DHU335H1 - From Book to Map to Video Game: Texts and their Digital Transformations

Previous Course Number: WDW335H1

Hours: 24L/12P

An examination of the new forms of storytelling made possible by digital media from two perspectives, that of the maker and that of the scholarly reader. Students learn to critically analyze storytelling in new media and experiment with their own adaptations of a literary text to various digital platforms.

Prerequisite: DHU235H1 and DHU236H1; open to students not taking the Digital Humanities Minor by permission of the program coordinator.

Exclusion: WDW335H1

Breadth Requirements: Creative and Cultural Representations (1)

DHU336H1 - Research and Writing in Digital Humanities

Previous Course Number: WDW336H1

Hours: 24L

This course explores the future of digital humanities from two perspectives. We will examine some successful contributions to the humanities employing digital technology, and also look at some critical assessments of digital technology's impact on humanistic studies. Students will then develop and report on their own digital humanities research projects.

Prerequisite: DHU235H1 and DHU236H1, or permission of the program coordinator.

Exclusion: WDW336H1

Breadth Requirements: Thought, Belief and Behaviour (2)

DHU337H1 - Historical Archives in the Digital Age

Previous Course Number: WDW337H1

Hours: 24L/12P

How do digital surrogates of texts and objects change how we use them? This course examines texts and archives in the digital age: the aims of building them; the new scholarly approaches that they enable; the preservation, access, and equity questions that they raise and require us to answer responsibly.

Prerequisite: DHU235H1 and DHU236H1; open to students not taking the Digital Humanities Minor by permission of the program coordinator.

Exclusion: WDW337H1

Breadth Requirements: Creative and Cultural Representations (1)

DHU338H1 - Data: Access, Creation, Curation, and Interpretation

Previous Course Number: WDW338H1

Hours: 24L/12P

A central challenge of digital humanities is the complexity of representing interpretive, narrative, and perspective-dependent humanities data through digital tools and environments. Topics include the history of "data" as term and concept; data standards, databases, and linked data; datasets, data curation and analytics, both qualitative and quantitative; and data visualization.

Prerequisite: DHU235H1 and DHU236H1; open to students not taking the Digital Humanities Minor by

permission of the program coordinator.

Exclusion: WDW338H1

Breadth Requirements: Creative and Cultural Representations (1)

DHU339H1 - Special Topics in Digital Humanities

Hours: 24L/12P

Topics will vary from year to year. Open to students not enrolled in the Digital Humanities Minor by permission of the program coordinator.

Prerequisite: DHU235H1 and DHU236H1

Breadth Requirements: Creative and Cultural Representations (1)

DHU435H1 - The Internet Archive

Previous Course Number: WDW435H1

Hours: 24L/12P

Digital environments change how knowledge is created, communicated, and used. Using the Internet Archive as case study, this course examines the significance of such changes from a variety of perspectives: knowledge representation; technical infrastructure; gender, class, and race issues; disability rights; intellectual property questions; and algorithmic and interpretive scholarly approaches.

Prerequisite: DHU235H1 and DHU236H1 plus at least 1.0 additional credit in the Digital Humanities Minor program; open to students not taking the Digital Humanities Minor by permission of the program coordinator.

Exclusion: WDW435H1

Breadth Requirements: Creative and Cultural Representations (1)

DHU436H1 - Advanced Topics in Digital Humanities

Previous Course Number: WDW436H1

Hours: 24L/12P

This course serves as a capstone for the Digital Humanities Minor program. It includes opportunities for students to conduct original research. The topics for this course will vary from year to year.

Prerequisite: DHU235H1 and DHU236H1, and 1.0 additional credit in the Digital Humanities Minor program.

Breadth Requirements: Creative and Cultural Representations (1)

DHU437H1 - Research Projects in Digital Humanities

Previous Course Number: WDW437H1

This course is for students who wish to pursue a significant research project, usually participation in a faculty-led DH research project, though it may take other forms. Students must be enrolled in the DH Minor program or obtain special permission of the program coordinator.

Prerequisite: DHU235H1 and DHU236H1, and 1.0 additional credit in the Digital Humanities Minor program.

Breadth Requirements: Creative and Cultural Representations (1)

Other Woodsworth Courses

WDW295Y0 - Special Topics Abroad

Hours: 48L

Course description varies each year. Please see the Summer Abroad website for course details. Not eligible for CR/NCR option.

Exclusion: RSM295Y0

WDW299Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

WDW399Y1 - Research Opportunity Program

Credit course for supervised participation in faculty research project. Details at <https://www.artsci.utoronto.ca/current/academics/research-opportunities/research-opportunities-program>. Not eligible for CR/NCR option.

Writing in the Faculty of Arts & Science

The ability to think critically and to write well-organized, clear, grammatical prose is important to your work in Arts and Science courses. It will also improve your chances if you apply to graduate or professional schools and will give you an advantage in the workplace. To help you develop your writing skills, Arts and Science provides a range of instructional resources.

For courses in creative writing, see entries under “[English](#)” (ENG), “[Innis College](#)” (WRR), and “[Victoria College](#)” (CRE) in this Calendar.

Courses

Departments and programs integrate writing instruction into many of their courses, and some offer courses that concentrate on communication in their disciplines. Check the course listings by department.

Your course instructors and teaching assistants will provide guidelines for written assignments. They will often offer instruction in class and give you the opportunity to ask questions before assignments are due. You may ask them to discuss work that has been graded and returned to you.

In addition, the university offers several courses in writing effective essays:

- [ENG100H1](#) (Effective Writing) is listed under “[English](#)” in this Calendar
- [WRR103H1](#) (Introduction to Academic Essay Writing) is listed under “[Innis College](#)”
- [WRR203H1](#) (Advanced Essay Writing) is listed under “[Innis College](#)”
- [JWE206H1](#) (Writing English Essays) is listed under “[English](#)” and “[Innis College](#)”

Innis College’s Minor Program in [Writing and Rhetoric](#) offers an array of courses that explore the worlds of oral, written, and online discourse. Rhetoric courses focus on how persuasion circulates in society, while writing courses teach students how to employ rhetoric and to write well in the modes, genres, and styles appropriate to particular disciplinary, institutional, and creative contexts. Visit course listings under [Innis College](#) in this Calendar.

Victoria College offers a minor program called [Creative Expression and Society](#). It has two components: (1) workshop-style courses allowing students to develop skills in creative expression and communication, and (2)

courses encouraging students to analyze the relationship between creative arts and society. Visit course listings under [Victoria College](#) in this Calendar.

[Trinity College](#) offers the course [TRN478H1](#) (Science Writing for Non-Scientific Audiences). It focuses on a diversity of non-scientific audiences and writing styles.

The University of Toronto at Mississauga (UTM) offers a major and minor program in Professional Writing and Communication. The University of Toronto at Scarborough (UTSC) offers a major and minor program in Creative Writing. Consult with your college registrar about taking courses at either campus, and see the UTM and UTSC calendars for more detail about courses offerings.

English Language Learning Opportunities

The [English Language Learning \(ELL\) Program](#) offers undergraduates in Arts and Science a variety of ways to develop both oral and written communication. Intensive non-credit mini-courses are offered during fall and winter reading weeks and during the summer. During the fall and winter terms, programming includes free drop-in workshops using a variety of interesting activities to improve speaking, and also an online component for improving academic reading and writing.

Writing Centres

The writing centres at undergraduate colleges will help you develop the writing and critical thinking skills you need throughout your university studies. They offer, free of charge, both group and individual instruction.

Group instruction is offered through both in-course instruction and a series of workshops called Writing Plus. These intensive group workshops help prepare you to meet the expectations of university writing. They cover all stages of writing university papers, from understanding the assignment to revising the final draft. They also provide targeted advice for handling your reading load and the challenges of studying for tests and exams. Special sessions focus on writing admissions statements for graduate and professional programs. Dates and locations are listed online in the [Writing Plus](#) section of www.writing.utoronto.ca.

In individual consultations, trained writing instructors help you improve your ability to plan, write, and revise, focusing on course writing assignments of your choice. Instructors are familiar with writing conventions in the whole range of Arts and Science courses; many have specialized training in teaching students whose first language is not English. You are entitled to use the writing centre of the college where you are registered. Most colleges also allow students from other colleges to book

appointments for writing assignments in a college program course. All the college writing centres use an online booking system that requires your UTORid for login. More information is available in the [Writing Centres](#) section of www.writing.utoronto.ca. Here is a list of Arts and Science writing centres:

- French Department Writing Labs: ask your professor or inquire at 416-926-2302
- Innis College Writing Centre, Rooms 315 and 322
- New College Writing Centre, Wilson Hall, Rooms 2045 and 2047
- Philosophy Department Essay Clinic, Jackman Humanities Building, Room 422.
- St. Michael's College Writing Centre, Kelly Library, Learning Commons
- Trinity College Writing Centre, Academic Resource Centre, 6 Hoskins Avenue, basement
- University College Writing Centre, UC sUCcess Commons, Room 259
- Victoria College Writing Centre, rooms listed on appointment schedule
- Woodsworth College Academic Writing Centre, Room 214

Writing Resources

Campus libraries stock many reference guides for academic writing, some of them online. You will find both general handbooks on style and referencing, and guides on writing in specific disciplines. You can also consult the [Advice](#) section of the website Writing at the University of Toronto at www.writing.utoronto.ca. It contains short files addressing common issues in academic writing along with links to other useful online and print resources.

Yiddish Studies

Faculty List

Yiddish Studies Faculty

A. Hoffman, MA, PhD
A. Shternshis, D.Phil, AI and Malka Green
Associate Professor in Yiddish Studies

Given by the Department of Germanic Languages & Literatures

Introduction

For more information about the AI and Malka Green Yiddish Undergraduate Studies Program, please visit: <https://german.utoronto.ca/yiddish-studies/yiddish-undergraduate/>

Yiddish Studies Programs

AI and Malka Green Yiddish Program Minor (Arts Program) - ASMIN1163

Enrolment Requirements:

This is an open enrolment program. A student who has completed 4.0 credits may enrol in the program.

Completion Requirements:

(4.0 credits)

1. (GER260Y1/ (GER261H1 and GER262H1) and GER360H1)/ GER463Y1
2. GER460H1/ GER462H1*
3. The remaining courses should be taken from: GER361H1, GER367H1, JGJ360H1, GER100Y1, GER150H1, or any course offered by and cross-listed by the Centre for Jewish Studies

*NOTE:

1. Students who took GER463Y1 cannot take GER260Y1/ GER261H1/ GER262H1 or GER360H1; students who

took GER260Y1/ GER261H1/ GER262H1 or GER360H1 cannot take GER463Y1.

2. Students who took GER462H1 cannot take GER460H1.

Course Groups

Centre for Jewish Studies Courses:

CJS200H1, CJS201H1, CJS390H1, CJS498Y1, CJS499H1

Anthropology Courses:

ANT384H1, ANT426H1

Canadian Studies Courses:

CDN380H1

Diaspora and Transnational Studies Courses:

DTS200Y1, DTS300H1, DTS404H1

School of the Environment Courses:

ENV382H1

History Courses:

HIS208Y1, HIS242H1, HIS304H1, HIS317H1, HIS338H1, HIS339H1, HIS351Y1, HIS353Y1, HIS361H1, HIS442H1, HIS444H1, HIS451H1

Near and Middle Eastern Civilizations Courses:

NML155H1, NML156H1, HIS303H1, NML255H1, NML220Y1, NML256H1, NML350H1, NML355H1, NML356H1

Philosophy Courses:

PHL338H1, PHL362H1, PHL370H1, PHL410H1

Political Science Courses:

POL345Y1, POL430Y1, POL438H1, POL484H1, POL486H1

Religion Courses:

MHB155H1, MHB156H1, MHB255H1, MHB256H1, MHB355H1, MHB356H1, RLG100Y1, RLG202H1, RLG220H1, RLG241H1, RLG280Y1, RLG316H1, RLG322H1, RLG326H1, RLG336H1, RLG341H1, RLG342H1, RLG347H1, RLG389H1, RLG411H1, RLG418H1, RLG431H1, RLG452H1

Slavic Languages and Literatures Courses:

SLA202H1, SLA230H1, SLA495H1

Sociology Courses:

SOC201H1, SOC251H1

Yiddish Studies Courses

GER261H1 - Elementary Yiddish 1

Previous Course Number: GER260Y1

Hours: 36L

This course introduces Yiddish language, literature, music, theater, and cinema through interactive multi-media seminars, designed to build proficiency in reading, writing and comprehending. No prior knowledge of Yiddish is required.

Exclusion: GER260Y1

Breadth Requirements: Creative and Cultural Representations (1)

GER262H1 - Elementary Yiddish 2

Previous Course Number: GER260Y1

Hours: 36L

This course is the continuation of GER261H1, Elementary Yiddish 1. While learning the language the course will also introduce students to Yiddish literature & culture, providing a greater understanding of the historical and contemporary, religious and secular communities that speak and spoke this language.

Prerequisite: GER261H1

Exclusion: GER260Y1

Breadth Requirements: Creative and Cultural Representations (1)

GER360H1 - Intermediate Yiddish

Hours: 36P

The course conducted in Yiddish offers a review of basic grammar, stylistics, study of short literary texts.

Prerequisite: GER260Y1

Exclusion: GER463Y1

Breadth Requirements: Creative and Cultural Representations (1)

GER361H1 - Yiddish Literature in Translation (E)

Hours: 24S

An overview of the major figures and tendencies in modern Yiddish literature and culture from the beginning of the 19th century to the present. Readings (in English) of modern Yiddish prose, poetry, drama and cinema.

Breadth Requirements: Creative and Cultural Representations (1)

GER367H1 - Topics in Yiddish or German Jewish Literature and Culture

Hours: 24S

Topics in modern Yiddish or German Jewish literature and culture from the beginning of the 19th century to the present, featuring a selection of readings of modern Yiddish prose, poetry, drama and cinema. Taught in English and open to students across disciplines.

Prerequisite: Completion of 4.0 credits

Breadth Requirements: Creative and Cultural Representations (1)

GER460H1 - Advanced Yiddish

Previous Course Number: GER462H1

Hours: 36P

This course conducted entirely in Yiddish focuses on advanced reading, writing, vocabulary and conversation, the study of poetry, short fiction, and memoir literature by leading authors. Selected advanced grammatical topics are presented in conjunction with the study of texts.

Prerequisite: GER360H1

Exclusion: GER462H1

Breadth Requirements: Creative and Cultural Representations (1)

GER463Y1 - Yiddish Language for German Speakers

Hours: 48P

The course is designed as an intensive Yiddish language training. The goal is to teach German speakers to read, write and speak in Yiddish. The curriculum relies on the German language skills of the students, and focuses on differences between Yiddish and German grammar and vocabulary. Upon the completion of the course, students should be able to read Yiddish literary texts with a minimal use of dictionary.

Note: Graduate students can take the course in preparation for their Yiddish competency test.

Prerequisite: 3.0 credits in German language or fluency in German language

Exclusion: GER260Y1, GER360H1, GER462H1

Breadth Requirements: Creative and Cultural Representations (1)